



97TH GENERAL ASSEMBLY

State of Illinois

2011 and 2012

HB3754

by Rep. Karen May

SYNOPSIS AS INTRODUCED:

See Index

Creates the Electric Vehicle Infrastructure Act. Provides that all regional and local transportation planning organizations in the State shall be invited to collaborate with the transportation electrification industry, the Office of the Governor, the Department of Commerce and Environment Opportunity, the Illinois Environmental Protection Agency, the Citizens Utility Board, environmental and public policy organizations, all electric utilities generating electricity within the State, and certain federal agencies to seek input and to seek all funding for the planning, deployment, and installation of electric vehicle public charging station infrastructure capable of being integrated intelligently with the electrical grid. Provides that municipalities and counties shall require a portion of all private and public parking lots, garages, and on-street parking spaces for the establishment of electric vehicle parking spaces. Sets forth provisions concerning purpose, definitions, planning, public meetings, parking spaces, penalties, public charging station infrastructure standards, the Transportation Electrification Energy Block Grant Fund, and permitting or electrical and building codes. Makes other changes. Amends the State Finance Act. Creates the Transportation Electrification Energy Block Grant Fund. Makes corresponding changes in the Property Tax Code, Public Utilities Act, and the Illinois Vehicle Code. Effective immediately.

LRB097 10261 ASK 52665 b

FISCAL NOTE ACT
MAY APPLY

HOME RULE NOTE
ACT MAY APPLY

A BILL FOR

1 AN ACT concerning transportation.

2 **Be it enacted by the People of the State of Illinois,**
3 **represented in the General Assembly:**

4 Section 1. Short title. This Act may be cited as the
5 Electric Vehicle Infrastructure Act.

6 Section 5. Purpose.

7 (a) The legislature has adopted public policy for the State
8 of Illinois to encourage the use of alternative fuels to power
9 vehicles within Illinois. This policy has encouraged a new
10 generation of mass-produced electric vehicles arriving in 2010
11 in auto markets that are infrastructure-ready for both home and
12 public charging stations.

13 (b) The legislature finds that Illinois electric vehicle
14 drivers will need to charge their vehicle batteries at their
15 residences, places of business, or at any number of public and
16 private charging stations. Limited driving distance between
17 battery charges is a fundamental obstacle to broad consumer and
18 industry adoption of electric vehicles powered fully or
19 partially with electricity connected to the electric grid. The
20 legislature finds that developing an electric vehicle public
21 charging station infrastructure is a first and essential step
22 toward the transformation of electric transportation in
23 Illinois. To sustain emission-free driving and attract

1 economic development, there must be uniform, statewide
2 standards to develop a smart grid charging infrastructure to
3 efficiently connect electric vehicles to the electric grid. By
4 2015, over one million electric plug-in vehicles are expected
5 to be driving on America's roadways, connected to the nation's
6 smart grid.

7 (c) By supporting the adoption of smart grid electric
8 vehicle parking spaces within Illinois, local communities will
9 set aside emission-free vehicle parking spaces in the vicinity
10 of the entrances to public buildings for the greater enjoyment
11 of clean air, job creation, transferring wealth to Illinois
12 residents, energy independence, fostering car sharing,
13 pedestrian alternatives, mass transit, rail, and other
14 sustainable transportation mobility and clean economic
15 development opportunities.

16 Section 10. Definitions. As used in this Act:

17 "Battery exchange station" means a facility that enables an
18 electric vehicle with a swappable battery to exchange the
19 depleted battery with a fully-charged battery through a fully
20 automated process that meets or exceeds any standards, codes,
21 and regulations set forth by this Act and consistent with rules
22 adopted under this Act or otherwise required under State law.

23 "Commission" means the Illinois Commerce Commission.

24 "Director" means the Director of Commerce and Economic
25 Opportunity.

1 "Electric vehicle" has the same meaning as "new qualified
2 plug-in electric drive motor vehicle" under Section 30D of the
3 Internal Revenue Code and shall also mean any car converted to
4 an electrical plug-in vehicle and the conversion process is
5 qualified and approved by the Illinois Secretary of State for
6 licensure. "Electric vehicle" shall also include plug-in
7 hybrid electric vehicles or battery-powered electric vehicles
8 as defined by the U.S. Department of Energy.

9 "Integrated intelligently with the electrical grid" means
10 possessing the capacity to reduce the electric vehicle's demand
11 for the electricity from the grid during peak times and to
12 enable maximum use of renewable energy sources, base load
13 energy sources, and stored energy during off-peak times that
14 would otherwise be curtailed.

15 "Electric vehicle charging infrastructure" means
16 structures, machinery, communication, and smart grid equipment
17 necessary to support an energy network capable of being
18 intelligently connected to the grid for electric charging,
19 including battery charging stations and battery exchange
20 stations.

21 "Level 1" means a charging method that allows an electric
22 vehicle to be connected to the most commonly available grounded
23 electrical outlet (NEMA 5-20) with power levels rated at less
24 than or equal to 120 VAC/20 amps.

25 "Level 2" means a charging method that allows an electric
26 vehicle to be connected to permanently wired EVSE with a

1 specialized connector (SAE J1772) with power levels rated at
2 less than or equal to 240 VAC/80 amps.

3 "Fast Charging" means a charging method that allows an
4 electric vehicle to be connected to permanently wired EVSE with
5 direct current service with power levels rated at 480VAC and a
6 3-phase circuit.

7 "Public charging station" means an electric energy network
8 that is fully accessible and open to all drivers that connects
9 vehicles for both Level 1 and Level 2 status in each charging
10 station and is capable of being both intelligently connected to
11 the grid and bi-directional by feeding power to or from the
12 grid from all publicly accessible parking garages, lots, and
13 street locations.

14 "Rapid charging station" means an industrial-grade
15 electrical outlet that allows for faster charging of electric
16 vehicle batteries through higher power levels, exceeding Level
17 1 and Level 2 charging stations, that meets or exceeds any
18 standards, codes, and regulations set forth by the State and
19 local electrical and building codes.

20 "Renewable energy" means renewable fuels generating
21 domestic electricity within PJM or MISO regional transmission
22 zones.

23 "Electric vehicle parking spaces" means reserved parking
24 spots in each municipality or county reserved exclusively for
25 electric-powered vehicles that the owner of public parking
26 spaces on the street, surface parking lot, or garage facilities

1 shall designate and install a public charging station to be
2 prioritized by locating the parking space on a priority basis
3 first in proximity to the reserved handicap spaces to enable
4 handicap drivers full access to charge their electric vehicle
5 and full access to connect the vehicle conveniently to the
6 electric grid.

7 Section 15. Planning.

8 (a) All regional and local transportation planning
9 organizations in the State shall be invited to collaborate with
10 the transportation electrification industry, the Department of
11 Commerce and Environment Opportunity, the Illinois
12 Environmental Protection Agency, the Citizens Utility Board,
13 environmental and public policy organizations, the Illinois
14 Commerce Commission, local governments, any local chapters of
15 the Electric Auto Association, all electric utilities
16 generating electricity within the State, all federal agencies
17 with fleets or jurisdiction over environmental matters, and the
18 Office of the Governor to seek regular hearings, Commission
19 dockets, meetings on planning, and federal, State, county,
20 local municipal, or private input and to seek all funding for
21 the planning, deployment, and installation of electric vehicle
22 public charging station infrastructure capable of being
23 integrated intelligently with the electrical grid as
24 determined to be necessary by the Department and the Commission
25 from time to time.

1 (b) The public hearings and meetings should include the
2 following:

3 (1) The development of short-term and long-term plans
4 outlining how electric utilities shall collaborate with
5 State, regional, and local government entities, building
6 departments, and private property owners to demonstrate
7 how the electric vehicle public charging infrastructure
8 can be integrated intelligently with the electrical grid
9 and develop open and convenient parking. These plans should
10 include educating, communicating, recommending, and
11 updating as required the standard amounts and ratios of
12 public charging stations required per vehicle. In the
13 interim, a minimum amount of public charging
14 infrastructure integrated intelligently with the
15 electrical grid per community should be determined based on
16 community size and the expected number of electric vehicles
17 that will be driven within a community.

18 (2) Consultation with State and local building
19 departments to coordinate State standards for new or
20 existing residential, commercial, and industrial buildings
21 to ensure that the appropriate electric circuitry is
22 installed to support electric vehicle infrastructure.

23 (3) Consultation with local groups representing
24 community workforces, the transportation electrification
25 industry stakeholders within the State, and higher
26 education associations to ensure development of

1 appropriate educational and training opportunities for
2 State citizens in support of the transition of vehicular
3 transportation from combustion to electric vehicles.

4 (4) Development of a plan for counties and
5 municipalities to implement public and private parking
6 spaces with charging infrastructure integrated
7 intelligently with the electrical grid, and to assign an
8 aggregate minimum of 5% of all public parking spaces within
9 the State of Illinois as electric plug-in ready by December
10 31, 2011;

11 (5) development of model ordinances and guidance for
12 local governments for siting and installing electric
13 vehicle public charging station infrastructure, in
14 particular public charging stations installed within
15 electric vehicle parking spaces, battery charging
16 stations, and appropriate handling, recycling, and storage
17 of electric vehicle batteries and equipment.

18 (c) Priority must be given to the activities in item (5) of
19 subsection (b), and any ordinance or guidance that is developed
20 must be submitted by report to the legislature, the Department,
21 all affected local county and city governments, and all private
22 sector industry associations affected as recommended by the
23 Department prior to December 31, 2011.

24 Section 20. Business incentives and requirements.

25 (a) Municipalities and counties shall require a portion of

1 all private and public parking lots, garages, and on-street
2 parking spaces for the establishment of electric vehicle
3 parking spaces as follows:

4 (1) To facilitate the State's planning for electric
5 vehicle parking spaces, at least 25% of all existing or
6 subsequently created publicly-accessible handicap spaces
7 on a public street, parking lot, or garage shall be
8 connected to the electric grid by a public charging station
9 within 18 months after the effective date of this Act.

10 (2) All electric vehicle parking spaces shall be
11 painted dark blue and designated clearly marked "Electric
12 Vehicle Parking Only", and the exclusive designation shall
13 be enforced. Private and public owners of multiple parking
14 lots within the State may designate and electrify fewer
15 parking spaces than required in one or more of their owned
16 properties as long as the scheduled requirement is met for
17 aggregate spaces on all owned properties and a sufficient
18 amount of electric vehicle parking spaces are available for
19 employees and the public.

20 (3) Whenever a handicapped parking space that is
21 required to have a public charging station or has a public
22 charging station as required by this Act adjoins a
23 non-handicapped parking space physically, at least one
24 additional public charging station must be installed on the
25 driver's side of the handicap parking space or spaces for
26 the public's access and usage, or the nearest available

1 non-handicapped space.

2 (4) When the number of registered electric vehicles in
3 the State reaches 10,000, the spaces designated for
4 electric vehicles shall increase to 2.5% of all parking
5 spaces in public or privately owned parking lots. The
6 number of spaces designated for electric vehicles shall
7 continue to increase by 1% for each additional 10,000
8 electric vehicles registered in the State until the
9 percentage reaches 20% of all parking spaces on a public
10 street, parking lot, or garage.

11 For the purposes of this Section, "electric vehicle" means
12 an electric vehicle or neighborhood electric vehicle.

13 (b) Beginning January 1, 2012, all State agencies, when
14 purchasing new vehicles, shall seek vehicles with reduced
15 dependence on petroleum-based fuels that meet the needs of the
16 agency. Upon availability, at least 25% of all new vehicles
17 purchased or leased by a State agency shall be new, converted,
18 or retrofitted all-electric vehicles, plug-in
19 electric-hybrids, or range-extender electric vehicles or
20 hydrogen or fuel cell vehicles.

21 (c) Within 18 months after the effective date of this Act,
22 all public, private, and government parking facilities
23 available for use by the public containing 50 or more parking
24 spaces ("major parking facilities") shall be required to
25 replace their existing utility grade meter with an AMI
26 bi-directional smart meters.

1 The major parking facilities shall purchase 100% of the
2 electricity from the AMI meter to power the garage or parking
3 lot from:

4 (1) renewable energy or renewable energy credits, for
5 all parking garages and parking lots within the State; or

6 (2) renewable energy credits equal to the energy
7 consumed that are no more than 110% of the facility's
8 utility provider default rate, and shall be described as
9 "GREEN FUEL ENERGY FACILITIES" that are considered as a
10 necessary and integral part of the solar energy system when
11 purchasing solar energy generated electricity and shall be
12 exempt pursuant to Section 10-5 of the Property Tax Code.

13 To the extent that the price for the GREEN FUEL ENERGY
14 FACILITIES cost exceeds 110% of the utility default rate, the
15 facility may reduce the percentage of renewable power or RECs
16 to lower the cost to 110% of the facility's utility provider
17 default rate.

18 The requirements of this Section are intended to help meet
19 the State of Illinois renewable portfolio standards goals and
20 establish a policy for the State of Illinois to plan,
21 demonstrate, and install the necessary parking lot, parking
22 garage, and street-based public charging station
23 infrastructure facilities that will be necessary to support the
24 supply and access of electric power to fuel all the anticipated
25 electric vehicle transportation within the State. It is the
26 policy of the State of Illinois to derive the incremental

1 increase in electric power that will be required to power
2 electric vehicles to utilize the State's domestic fuels to
3 generate electricity including any and all fossil free fuels
4 and all other domestic energy being generated by domestic
5 electricity within PJM or MISO regional transmission zones.

6 Section 30. Public charging station infrastructure
7 standards.

8 (a) Each public charging station should be capable of
9 offering diversified levels of electric charging energy
10 including, at a minimum, both Level 1 and Level 2 plug-in
11 charging capabilities. The charging features shall include:

12 (1) Level 1 and Level 2 public charging stations shall
13 be compliant with the Society of Automotive Engineers (SAE)
14 J1772 standards now in effect and shall be upgraded as
15 these standards are amended from time to time by the
16 industry standards.

17 (2) "Rapid Charging" or Level 3 charging
18 infrastructure for the home charging and the public use has
19 not yet been widely approved by the auto industry and will
20 continue to be monitored. Therefore, Level 3 charging for
21 PHEVs is not considered requisite for the establishment of
22 a rich charging infrastructure for home and public charging
23 at this time and, as the standards for rapid charging
24 stations application are developed, it is anticipated that
25 the State's infrastructure standards will include Level 3

1 charging.

2 (3) The electric vehicle public charging units shall
3 meet recognized industry standards, including the National
4 Electric Code (NEC), the Institute of Electrical and
5 Electronics Engineers (IEEE), the Electric Power Research
6 Institute (EPRI), the Detroit Edison Institute (DTE), the
7 Underwriters Laboratory (UL), the Society of Automotive
8 Engineers (SAE), and the National Institute of Standards
9 and Technology (NIST).

10 (b) All home and public charging stations shall meet all
11 applicable electric and building codes of the municipality or
12 county where the charging station is installed. All home and
13 public charging stations must be approved and certified to
14 conform to industry standards by Underwriter's Laboratories or
15 other nationally recognized standards associations approved by
16 the Department.

17 (c) Beginning January 1, 2012, all new construction
18 projects in all municipalities and counties requiring a
19 building permit must designate no less than 5% of the project's
20 available parking spaces for electric vehicle ready parking
21 spaces.

22 (d) At its discretion, the local permitting authority may
23 temporarily suspend, for no more than 3 months at a time, a
24 reasonable portion of this requirement up to 18 months after
25 the effective date of this Act if there are not sufficient
26 electric vehicles located in their jurisdiction, but shall

1 establish a reasonable percentage or number of electric vehicle
2 charging spaces sufficient to accommodate existing and the
3 expected volume of electric vehicles within their community,
4 however the local building authority shall require
5 improvements at the time of permitting for the rough
6 infrastructure of underground and building piping, conduit,
7 and other service equipment to be installed at the capacity to
8 efficiently expand the electric service to accommodate up to
9 10% of the parking spaces located within the parking lot, area,
10 or garage.

11 Section 35. Transportation Electrification Energy Block
12 Grant Fund.

13 (a) The purpose of this Section shall be for the State of
14 Illinois to establish the most engaged electric vehicle
15 infrastructure coalition of stakeholders and private public
16 partnerships, including, at a minimum the following:

17 (1) elected and appointed officials from participating
18 State, local, and tribal governments;

19 (2) all relevant generators and distributors of
20 electricity;

21 (3) public utility commissions;

22 (4) departments of environment, public works, and
23 transportation;

24 (5) owners and operators of property that will be
25 essential to the deployment of a sufficient level of

1 publicly available charging infrastructure (including
2 privately owned parking lots or structures);

3 (6) plug-in electric drive vehicle manufacturers or
4 retailers;

5 (7) third-party providers of charging infrastructure
6 or services;

7 (8) owners of any major fleet that will participate in
8 the program;

9 (9) as appropriate, owners and operators of regional
10 electric power distribution and transmission facilities;

11 (10) other existing community coalitions recognized by
12 the Department of Energy and communities that have best
13 demonstrated that the public is likely to embrace plug-in
14 electric drive vehicles, including, but not limited to,
15 representatives of the distributive generation of energy
16 storage, smart grid applications relating to
17 transportation, renewable energy manufactures, and
18 installers of solar, wind, and biomass generation;

19 (11) the Citizens Utility Board;

20 (12) national and local environmental groups; and

21 (13) rental and car charging companies.

22 (b) There is hereby created in the State treasury the
23 Transportation Electrification Energy Block Grant Fund. The
24 Fund shall be administered and expended by the Department of
25 Commerce and Economic Opportunity, into which shall be
26 deposited:

- 1 (1) appropriations made by the legislature;
- 2 (2) gifts, grants, and other public and private funds;
- 3 (3) any federal funds; and
- 4 (4) all interest and revenue of receipts derived from
- 5 the Fund.

6 (c) The moneys in the Transportation Electrification
7 Energy Block Grant Fund shall be used by the Illinois
8 Department of Commerce and Economic Opportunity to pay for any
9 administrative, operational, training, and marketing costs
10 associated with the transportation energy transformation grant
11 program to furnish to Illinois citizens the following
12 incentives:

13 (1) To increase the Illinois EPA Rebate to \$7,500 for
14 the first 1,000 electric vehicles.

15 (2) Provide 50% of the costs of labor and materials for
16 new or retrofitted upgrades to the electrical service in
17 the nature of a permanent improvement to an electrical
18 service panel required for parking lot, parking garage, or
19 home installation of electric vehicle charging
20 infrastructure for home charging as follows:

21 (A) Grants up to \$500 for residential charging
22 stations (\$750 for charging station infrastructure
23 capable of being intelligently integrated with the
24 electrical grid for promoting off-peak charging and
25 demand response services).

26 (B) Grants up to \$3,500 for public charging

1 stations only when the charging station infrastructure
2 is capable of being intelligently integrated with the
3 electrical grid for promoting off-peak charging and
4 demand-response services.

5 (d) The Department shall also provide grants from the Fund
6 for innovative programs that diversify transportation energy
7 resources or that help coordinate activities that will help to
8 diversify transportation energy sources in the State, and in
9 particular car sharing programs, renewable energy attached to
10 charging station installations in parking canopies, batteries
11 and smart grid management systems that integrate energy
12 management between the buildings and the vehicles for grants of
13 50% of the program costs to cities and counties not to exceed
14 \$75,000 for "Sustainable Transportation Electrification
15 Projects" as follows:

16 (1) applications for grants shall be made by schools,
17 colleges, universities, not-for-profit organizations,
18 private residents, commercial, institutional businesses,
19 cities, tribal agencies, and counties located within the
20 State, to the Department of Commerce and Economic
21 Opportunity are intended to be charged primarily by
22 renewable energy sources for public charging stations that
23 are capable of being integrated intelligently with the
24 electrical grid; or

25 (2) demonstration projects for electric transportation
26 energy efficiency activities, including projects that

1 integrate renewable energy, smart grid energy systems,
2 energy storage devices such as batteries in the vehicles as
3 well as batteries installed and integrated into the
4 charging stations, and other forms of energy storage
5 supporting the programs that include car sharing of
6 electric vehicles, promoting fleet reduction goals,
7 reducing carbon dioxide and other greenhouse gases,
8 promoting clean air, promoting the use of renewable energy
9 for cleanly fueling electric vehicles within the State,
10 reduction of use of fossil fuels, promoting sustainable
11 electric advancing the use of electric-powered mass
12 transit, electric rail, electric bike, and pedestrian
13 travel through bike pathways, kiosks, solar canopies
14 including batteries, and bi-directional flow of energy
15 systems including associated energy storage capabilities.

16 (3) A grant may be made to an applicant only if the
17 applicant has:

18 (A) met the specifications and requirements
19 established by the Director;

20 (B) filed a completed application form as
21 prescribed by the Director together with all required
22 supporting documentation;

23 (C) completed the purchase or lease, licensing,
24 and registration of one or more vehicles prior to
25 applying for one or more electric vehicle grants;

26 (D) provided any other information deemed

1 necessary by the Director; and

2 (E) met any additional requirements of the grant
3 program as determined by the Director.

4 (e) The Director shall include information on the
5 Transportation Electrification Energy Block Grant Fund and
6 statistical information on program participation in the
7 Department of Commerce and Economic Opportunity's annual
8 report to the governor and the legislature.

9 (f) The Director may adopt rules to govern all aspects of
10 the Transportation Electrification Energy Block Grant Fund
11 program.

12 (g) There are to be established within the Department 2
13 full-time positions to carry out the purposes of this Section.

14 Section 40. Open access to plug-in electric vehicles
15 conveniently to the electric grid; defining energy efficiency
16 in transportation and fostering sustainable transportation
17 mobility.

18 (a) It is the policy of the State of Illinois to provide
19 electric vehicle drivers open and convenient access for all
20 public charging stations to assist all Illinois drivers to be
21 enabled to be intelligently connected to the electric grid and
22 charge the battery for their electric vehicle and to access all
23 other smart grid features.

24 (b) Municipalities are authorized to adopt incentive
25 programs to encourage the retrofitting of existing structures

1 with electrical outlets capable of charging electric vehicles.
2 Incentives may include bonus height, site coverage, floor area
3 ratio, and transferable development rights for use in urban
4 growth areas and waiver of permit fees.

5 (c) With regards to any and all energy efficiency programs
6 created, funded, or administered within the State of Illinois,
7 the definition of "eligible costs" for the utility bill
8 financing program, the real estate tax bill program, or other
9 energy efficiency programs funded by the federal, State,
10 municipality, county or other public funding shall include the
11 eligible cost of any new or upgraded electric service,
12 circuitry, wire, conduit, services, or other permanently
13 attached charging connective device or related electrical
14 materials or devices and the reasonable value of the cost of
15 all labor provided by a licensed electrical contractor within
16 the State for the costs of installing all charging connected to
17 the electric service to the building or the property, any and
18 all home or public charging stations as an eligible expense for
19 all energy efficiency work for all permanent installations of
20 home or public charging station devices. Public charging
21 stations must also be capable of being intelligently connected
22 to the electrical grid.

23 (d) By July 1, 2011 or 18 months after the effective date
24 of this Act, whichever is sooner, the development regulations
25 of any municipal or county jurisdiction under this Act must
26 allow public battery exchange stations, public charging

1 stations, and related stationary energy storage facilities as a
2 permitted zoning use in all public parking lots or garages
3 located in all zoning districts, regulations or areas.
4 Municipalities and counties may adopt and apply other
5 development regulations that do not have the effect of
6 precluding the siting of electric vehicle infrastructure in
7 areas where that use is allowed such as screening, design, and
8 other planning like requirements.

9 Section 45. Private and public partnership authority.

10 (a) The General Assembly finds and determines that this Act
11 shall:

12 (1) reduce and eventually eliminate
13 transportation-induced greenhouse gas emissions in many
14 neighborhoods that have been identified as contributing to
15 global warming, the effects of which pose a threat to
16 public health and safety and the economy of the State of
17 Illinois;

18 (2) help the State meet its energy needs, keep its
19 economy strong, and protect the environment while reducing
20 its contribution to human-induced greenhouse gas
21 emissions;

22 (3) facilitate the State's ability to begin
23 transitioning away from oil to utilizing renewable and
24 fossil-free electricity as the fuel for powering Illinois
25 transportation industry and improve the State's security

1 through improved energy independence;

2 (4) represent a substantial investment of private
3 dollars in Illinois communities combined with the ARRA
4 funds; other grants, tax credits, or loan guaranties; and
5 loans by the Illinois Finance Authority or the federal
6 Department of Energy;

7 (5) help ensure the long-term viability of Illinois'
8 diverse electrical market as a major energy source in the
9 State and throughout the nation and represents a
10 significant step in the State's efforts to become a
11 self-sufficient, clean energy producer;

12 (6) provide a variety of opportunities for the State of
13 Illinois to partner with municipalities and counties
14 throughout the State, the adjoining Midwest states, and the
15 federal Department of Energy to foster a network of
16 electric vehicle parking spaces connected to the National
17 Smart Grid Programs;

18 (7) make the State of Illinois a center of research and
19 likely development of new technologies designed to improve
20 transportation mobility in the area of car sharing, clean
21 air in pedestrian areas, and the development of the
22 efficiency of renewable and required energy storage
23 industry that will be replicated world wide;

24 (8) be an important clean tech project creating jobs in
25 the State of Illinois during the construction and
26 operational phases, contribute to the overall economy of

1 the State, and help reinvigorate the Illinois economy and,
2 in particular, create micro-grids of energy efficiency
3 throughout the State of Illinois that will lead to
4 innovation, environmental well-being, and economic
5 development for decades; and

6 (9) to accomplish these public purposes, the State,
7 through the Department, and all municipalities and
8 counties may enter into public-private partnerships that
9 shall be structured by the Department, municipalities, and
10 counties in accordance with commercially-accepted business
11 practices and shall provide for a return to the public
12 municipality, county, or Department upon the return of
13 capital invested for the project and a market rate of
14 return.

15 (b) The installation of all plug-in electric home and
16 public vehicle charging station equipment shall conform to all
17 applicable building and electrical codes.

18 (c) The Department, with the associations for the State
19 building departments, shall review industry standards and
20 adopt for Level 1 and Level 2 home charging stations the
21 process of a self-certification permitting process to be
22 performed only by licensed electrical contractors for the
23 installation of home and public charging stations in
24 government, commercial, residential, and public applications.
25 There shall be a review of self-certification processes for
26 home charging if the work is performed by a licensed electrical

1 contractor certified in advance by a municipality or county
2 building department training program and subject to a follow-up
3 inspection by the building department issuing a permit.

4 (d) Within 90 days after being notified by the Illinois
5 Secretary of State that more than 10 electric vehicles have
6 registered within the municipal or county boundaries, a
7 municipality or county shall establish an expedited permitting
8 process to ensure to Illinois car dealers and their customers a
9 convenient and efficient transition to support the sale of the
10 electric vehicle and simultaneously the permitting,
11 installation, and inspection of a home or public charging
12 station on an expedited basis.

13 Section 800. The State Finance Act is amended by adding
14 Section 5.786 as follows:

15 (30 ILCS 105/5.786 new)

16 Sec. 5.786. The Transportation Electrification Energy
17 Block Grant Fund.

18 Section 900. The Property Tax Code is amended by changing
19 Section 10-5 as follows:

20 (35 ILCS 200/10-5)

21 Sec. 10-5. Solar energy systems; definitions. It is the
22 policy of this State that the use of solar energy systems

1 should be encouraged because they conserve nonrenewable
2 resources, reduce pollution and promote the health and
3 well-being of the people of this State, and should be valued in
4 relation to these benefits.

5 (a) "Solar energy" means radiant energy received from the
6 sun at wave lengths suitable for heat transfer, photosynthetic
7 use, or photovoltaic use.

8 (b) "Solar collector" means

9 (1) An assembly, structure, or design, including
10 passive elements, used for gathering, concentrating, or
11 absorbing direct and indirect solar energy, specially
12 designed for holding a substantial amount of useful thermal
13 energy and to transfer that energy to a gas, solid, or
14 liquid or to use that energy directly; or

15 (2) A mechanism that absorbs solar energy and converts
16 it into electricity; or

17 (3) A mechanism or process used for gathering solar
18 energy through wind or thermal gradients; or

19 (4) A component used to transfer thermal energy to a
20 gas, solid, or liquid, or to convert it into electricity.

21 (c) "Solar storage mechanism" means equipment or elements
22 (such as piping and transfer mechanisms, containers, heat
23 exchangers, or controls thereof, and gases, solids, liquids, or
24 combinations thereof) that are utilized for storing solar
25 energy, gathered by a solar collector, for subsequent use.

26 (d) "Solar energy system" means

1 (1) (A) A complete assembly, structure, or design of
2 solar collector, or a solar storage mechanism, which uses
3 solar energy for generating electricity or for heating or
4 cooling gases, solids, liquids, or other materials;

5 (B) The design, materials, or elements of a system and
6 its maintenance, operation, and labor components, and the
7 necessary components, if any, of supplemental conventional
8 energy systems designed or constructed to interface with a
9 solar energy system; and

10 (C) Any legal, financial, or institutional orders,
11 certificates, or mechanisms, including easements, leases,
12 and agreements, required to ensure continued access to
13 solar energy, its source, or its use in a solar energy
14 system, and including monitoring and educational elements
15 of a demonstration project.

16 (2) "Solar energy system" does not include

17 (A) Distribution equipment that is equally usable
18 in a conventional energy system except for those
19 components of the equipment that are necessary for
20 meeting the requirements of efficient solar energy
21 utilization; and

22 (B) Components of a solar energy system that serve
23 structural, insulating, protective, shading,
24 aesthetic, or other non-solar energy utilization
25 purposes, as defined in the regulations of the
26 Department of Commerce and Economic Opportunity.

1 (3) The solar energy system shall conform to the
2 standards for those systems established by regulation of
3 the Department of Commerce and Economic Opportunity.

4 (4) "Solar energy system" includes major parking
5 facilities, as described in subsection (b) of Section 20 of
6 the Electric Vehicle Infrastructure Act, that purchase
7 100% of the electricity from the AMI meter to power the
8 garage or parking lot from renewable energy credits equal
9 to the energy consumed that are no more than 110% of the
10 facility's utility provider default rate.

11 (Source: P.A. 94-793, eff. 5-19-06.)

12 Section 905. The Public Utilities Act is amended by
13 changing Section 3-105 as follows:

14 (220 ILCS 5/3-105) (from Ch. 111 2/3, par. 3-105)

15 Sec. 3-105. Public utility.

16 (a) "Public utility" means and includes, except where
17 otherwise expressly provided in this Section, every
18 corporation, company, limited liability company, association,
19 joint stock company or association, firm, partnership or
20 individual, their lessees, trustees, or receivers appointed by
21 any court whatsoever that owns, controls, operates or manages,
22 within this State, directly or indirectly, for public use, any
23 plant, equipment or property used or to be used for or in
24 connection with, or owns or controls any franchise, license,

1 permit or right to engage in:

2 (1) the production, storage, transmission, sale,
3 delivery or furnishing of heat, cold, power, electricity,
4 water, or light, except when used solely for communications
5 purposes;

6 (2) the disposal of sewerage; or

7 (3) the conveyance of oil or gas by pipe line.

8 (b) "Public utility" does not include, however:

9 (1) public utilities that are owned and operated by any
10 political subdivision, public institution of higher
11 education or municipal corporation of this State, or public
12 utilities that are owned by such political subdivision,
13 public institution of higher education, or municipal
14 corporation and operated by any of its lessees or operating
15 agents;

16 (2) water companies which are purely mutual concerns,
17 having no rates or charges for services, but paying the
18 operating expenses by assessment upon the members of such a
19 company and no other person;

20 (3) electric cooperatives as defined in Section 3-119;

21 (4) the following natural gas cooperatives:

22 (A) residential natural gas cooperatives that are
23 not-for-profit corporations established for the
24 purpose of administering and operating, on a
25 cooperative basis, the furnishing of natural gas to
26 residences for the benefit of their members who are

1 residential consumers of natural gas. For entities
2 qualifying as residential natural gas cooperatives and
3 recognized by the Illinois Commerce Commission as
4 such, the State shall guarantee legally binding
5 contracts entered into by residential natural gas
6 cooperatives for the express purpose of acquiring
7 natural gas supplies for their members. The Illinois
8 Commerce Commission shall establish rules and
9 regulations providing for such guarantees. The total
10 liability of the State in providing all such guarantees
11 shall not at any time exceed \$1,000,000, nor shall the
12 State provide such a guarantee to a residential natural
13 gas cooperative for more than 3 consecutive years; and

14 (B) natural gas cooperatives that are
15 not-for-profit corporations operated for the purpose
16 of administering, on a cooperative basis, the
17 furnishing of natural gas for the benefit of their
18 members and that, prior to 90 days after the effective
19 date of this amendatory Act of the 94th General
20 Assembly, either had acquired or had entered into an
21 asset purchase agreement to acquire all or
22 substantially all of the operating assets of a public
23 utility or natural gas cooperative with the intention
24 of operating those assets as a natural gas cooperative;

25 (5) sewage disposal companies which provide sewage
26 disposal services on a mutual basis without establishing

1 rates or charges for services, but paying the operating
2 expenses by assessment upon the members of the company and
3 no others;

4 (6) (Blank);

5 (7) cogeneration facilities, small power production
6 facilities, and other qualifying facilities, as defined in
7 the Public Utility Regulatory Policies Act and regulations
8 promulgated thereunder, except to the extent State
9 regulatory jurisdiction and action is required or
10 authorized by federal law, regulations, regulatory
11 decisions or the decisions of federal or State courts of
12 competent jurisdiction;

13 (8) the ownership or operation of a facility that sells
14 compressed natural gas at retail to the public for use only
15 as a motor vehicle fuel and the selling of compressed
16 natural gas at retail to the public for use only as a motor
17 vehicle fuel;

18 (9) alternative retail electric suppliers as defined
19 in Article XVI; and

20 (10) the Illinois Power Agency.

21 (b) "Public utility" shall not mean any person who owns,
22 controls, operates, or manages charging stations or facilities
23 primarily used to charge or discharge a vehicle battery that
24 provides power for vehicle propulsion.

25 (Source: P.A. 94-738, eff. 5-4-06; 95-481, eff. 8-28-07.)

1 Section 910. The Illinois Vehicle Code is amended by
2 changing Sections 3-405 and 3-412 and by adding Section
3 11-1301.9 as follows:

4 (625 ILCS 5/3-405) (from Ch. 95 1/2, par. 3-405)

5 Sec. 3-405. Application for registration.

6 (a) Every owner of a vehicle subject to registration under
7 this Code shall make application to the Secretary of State for
8 the registration of such vehicle upon the appropriate form or
9 forms furnished by the Secretary. Every such application shall
10 bear the signature of the owner written with pen and ink and
11 contain:

12 1. The name, domicile address, as defined in Section
13 1-115.5 of this Code, (except as otherwise provided in this
14 paragraph 1) and mail address of the owner or business
15 address of the owner if a firm, association or corporation.
16 If the mailing address is a post office box number, the
17 address listed on the driver license record may be used to
18 verify residence. A police officer, a deputy sheriff, an
19 elected sheriff, a law enforcement officer for the
20 Department of State Police, a fire investigator, a state's
21 attorney, an assistant state's attorney, or a state's
22 attorney special investigator may elect to furnish the
23 address of the headquarters of the governmental entity or
24 police district where he or she works instead of his or her
25 domicile address, in which case that address shall be

1 deemed to be his or her domicile address for all purposes
2 under this Chapter 3. The spouse and children of a person
3 who may elect under this paragraph 1 to furnish the address
4 of the headquarters of the government entity or police
5 district where the person works instead of the person's
6 domicile address may, if they reside with that person, also
7 elect to furnish the address of the headquarters of the
8 government entity or police district where the person works
9 as their domicile address, in which case that address shall
10 be deemed to be their domicile address for all purposes
11 under this Chapter 3. In this paragraph 1: (A) "police
12 officer" has the meaning ascribed to "policeman" in Section
13 10-3-1 of the Illinois Municipal Code; (B) "deputy sheriff"
14 means a deputy sheriff appointed under Section 3-6008 of
15 the Counties Code; (C) "elected sheriff" means a sheriff
16 commissioned pursuant to Section 3-6001 of the Counties
17 Code; (D) "fire investigator" means a person classified as
18 a peace officer under the Peace Officer Fire Investigation
19 Act; and (E) "state's attorney", "assistant state's
20 attorney", and "state's attorney special investigator"
21 mean a state's attorney, assistant state's attorney, and
22 state's attorney special investigator commissioned or
23 appointed under Division 3-9 of the Counties Code.

24 2. A description of the vehicle, including such
25 information as is required in an application for a
26 certificate of title, determined under such standard

1 rating as may be prescribed by the Secretary.

2 3. Information relating to the insurance policy for the
3 motor vehicle, including the name of the insurer which
4 issued the policy, the policy number, and the expiration
5 date of the policy.

6 4. Such further information as may reasonably be
7 required by the Secretary to enable him to determine
8 whether the vehicle is lawfully entitled to registration
9 and the owner entitled to a certificate of title.

10 5. An affirmation by the applicant that all information
11 set forth is true and correct. If the application is for
12 the registration of a motor vehicle, the applicant also
13 shall affirm that the motor vehicle is insured as required
14 by this Code, that such insurance will be maintained
15 throughout the period for which the motor vehicle shall be
16 registered, and that neither the owner, nor any person
17 operating the motor vehicle with the owner's permission,
18 shall operate the motor vehicle unless the required
19 insurance is in effect. If the person signing the
20 affirmation is not the sole owner of the vehicle, such
21 person shall be deemed to have affirmed on behalf of all
22 the owners of the vehicle. If the person signing the
23 affirmation is not an owner of the vehicle, such person
24 shall be deemed to have affirmed on behalf of the owner or
25 owners of the vehicle. The lack of signature on the
26 application shall not in any manner exempt the owner or

1 owners from any provisions, requirements or penalties of
2 this Code.

3 (b) When such application refers to a new vehicle purchased
4 from a dealer the application shall be accompanied by a
5 Manufacturer's Statement of Origin from the dealer, and a
6 statement showing any lien retained by the dealer.

7 (c) Within 12 months after the effective date of this
8 amendatory Act of the 97th General Assembly, the Secretary of
9 State shall be required to include within its application for
10 registration specific information about the type of electric
11 vehicle registered, including the name of vehicle
12 manufacturer, model, battery capacity in kWh, and name and
13 address of the utility at the location of the owner's
14 registered address. The Secretary of State shall issue a
15 license plate with the reference "EL" reserved only for
16 electric vehicles under subsection (g-5) of Section 3-412 of
17 this Act. The Secretary of State shall publish online monthly
18 the number of electric vehicles registered, including vehicle
19 type, battery capacity, and registered locations of all types
20 of electric vehicles by county, municipality, and the
21 applicable utility in order to facilitate the State's planning
22 goals as stated in the Electric Vehicle Infrastructure Act. The
23 Secretary of State shall furnish in written report or by email
24 the electric vehicle data required in this Section upon a
25 written or online request form by the county, municipality, or
26 utility for their use to plan the extent of public charging

1 infrastructure required for public charging stations.

2 (Source: P.A. 95-207, eff. 1-1-08; 96-580, eff. 1-1-10.)

3 (625 ILCS 5/3-412) (from Ch. 95 1/2, par. 3-412)

4 Sec. 3-412. Registration plates and registration stickers
5 to be furnished by the Secretary of State.

6 (a) The Secretary of State upon registering a vehicle
7 subject to annual registration for the first time shall issue
8 or shall cause to be issued to the owner one registration plate
9 for a motorcycle, trailer, semitrailer, moped or
10 truck-tractor, 2 registration plates for other motor vehicles
11 and, where applicable, current registration stickers for motor
12 vehicles of the first division. The provisions of this Section
13 may be made applicable to such vehicles of the second division,
14 as the Secretary of State may, from time to time, in his
15 discretion designate. On subsequent annual registrations
16 during the term of the registration plate as provided in
17 Section 3-414.1, the Secretary shall issue or cause to be
18 issued registration stickers as evidence of current
19 registration. However, the issuance of annual registration
20 stickers to vehicles registered under the provisions of
21 Sections 3-402.1 and 3-405.3 of this Code may not be required
22 if the Secretary deems the issuance unnecessary.

23 (b) Every registration plate shall have displayed upon it
24 the registration number assigned to the vehicle for which it is
25 issued, the name of this State, which may be abbreviated, the

1 year number for which it was issued, which may be abbreviated,
2 the phrase "Land of Lincoln" (except as otherwise provided in
3 this Code), and such other letters or numbers as the Secretary
4 may prescribe. However, for apportionment plates issued to
5 vehicles registered under Section 3-402.1 and fleet plates
6 issued to vehicles registered under Section 3-405.3, the phrase
7 "Land of Lincoln" may be omitted to allow for the word
8 "apportioned", the word "fleet", or other similar language to
9 be displayed. Registration plates issued to a vehicle
10 registered as a fleet vehicle may display a designation
11 determined by the Secretary.

12 The Secretary may in his discretion prescribe that letters
13 be used as prefixes only on registration plates issued to
14 vehicles of the first division which are registered under this
15 Code and only as suffixes on registration plates issued to
16 other vehicles. Every registration sticker issued as evidence
17 of current registration shall designate the year number for
18 which it is issued and such other letters or numbers as the
19 Secretary may prescribe and shall be of a contrasting color
20 with the registration plates and registration stickers of the
21 previous year.

22 (c) Each registration plate and the required letters and
23 numerals thereon, except the year number for which issued,
24 shall be of sufficient size to be plainly readable from a
25 distance of 100 feet during daylight, and shall be coated with
26 reflectorizing material. The dimensions of the plate issued to

1 vehicles of the first division shall be 6 by 12 inches.

2 (d) The Secretary of State shall issue for every passenger
3 motor vehicle rented without a driver the same type of
4 registration plates as the type of plates issued for a private
5 passenger vehicle.

6 (e) The Secretary of State shall issue for every passenger
7 car used as a taxicab or livery, distinctive registration
8 plates.

9 (f) The Secretary of State shall issue for every motorcycle
10 distinctive registration plates distinguishing between
11 motorcycles having 150 or more cubic centimeters piston
12 displacement, or having less than 150 cubic centimeter piston
13 displacement.

14 (g) Registration plates issued to vehicles for-hire may
15 display a designation as determined by the Secretary that such
16 vehicles are for-hire.

17 (g-5) The Secretary of State shall issue a license plate
18 with the reference "EL" reserved only for electric vehicles as
19 defined under the Electric Vehicle Infrastructure Act.

20 (h) (Blank).

21 (i) The Secretary of State shall issue for every public and
22 private ambulance registration plates identifying the vehicle
23 as an ambulance. The Secretary shall forward to the Department
24 of Healthcare and Family Services registration information for
25 the purpose of verification of claims filed with the Department
26 by ambulance owners for payment for services to public

1 assistance recipients.

2 (j) The Secretary of State shall issue for every public and
3 private medical carrier or rescue vehicle livery registration
4 plates displaying numbers within ranges of numbers reserved
5 respectively for medical carriers and rescue vehicles. The
6 Secretary shall forward to the Department of Healthcare and
7 Family Services registration information for the purpose of
8 verification of claims filed with the Department by owners of
9 medical carriers or rescue vehicles for payment for services to
10 public assistance recipients.

11 (k) The Secretary of State shall issue distinctive license
12 plates or distinctive license plate stickers for every vehicle
13 exempted from subsections (a) and (a-5) of Section 12-503 by
14 subsection (g) of that Section, and by subsection (g-5) of that
15 Section before its deletion by this amendatory Act of the 95th
16 General Assembly. The Secretary shall issue these plates or
17 stickers immediately upon receiving the physician's
18 certification required under subsection (g) of Section 12-503.
19 New plates or stickers shall also be issued when the
20 certification is renewed as provided in that subsection.

21 (l) The Secretary of State shall issue distinctive
22 registration plates for low-speed vehicles.

23 (Source: P.A. 95-202, eff. 8-16-07; 95-331, eff. 8-21-07;
24 96-554, eff. 1-1-10; 96-653, eff. 1-1-10; 96-815, eff.
25 10-30-09; 96-1000, eff. 7-2-10.)

1 (625 ILCS 5/11-1301.9 new)

2 Sec. 11-1301.9. Parking spaces reserved for electric
3 vehicles; penalties.

4 (a) Beginning January 1, 2012, no person may park a
5 non-electric vehicle in a space designated and marked as
6 reserved for electric vehicles. For the purposes of this
7 Section, "electric vehicle" shall have the meaning given to
8 that term in the Electric Vehicle Infrastructure Act.

9 (b) Beginning January 1, 2012, any person who parks a
10 non-electric vehicle in a space designated and marked as
11 reserved for electric vehicles shall receive a warning.

12 (c) Beginning July 1, 2012, any person who parks a
13 non-electric vehicle in a space designated and marked as
14 reserved for electric vehicles shall be guilty of a traffic
15 infraction under Regulating the standing or parking of
16 vehicles, except as limited by Section 11-1306 of this Act and
17 shall be fined not less than \$150 nor more than \$300, and shall
18 pay any costs incurred by the court related to assessing the
19 fine.

20 (d) Any citation issued under this Section may be mailed to
21 the violator pursuant to Section 1-2-9.1 of the Illinois
22 Municipal Code or, in the case of an unincorporated area of a
23 county, pursuant to Section 5-43025 of the Counties Code.

24 Section 999. Effective date. This Act takes effect upon
25 becoming law.

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9	625 ILCS 5/11-1301.9 new	