

# Hawaii's Clean Energy Goals and Policies

## **Electricity:**

1. **Renewable portfolio standards (RPS)** – HRS §269-92 (a) Each electric utility company that sells electricity for consumption in the State shall establish a renewable portfolio standard of:

- (1) 10% of its net electricity sales by December 31 2010;
- (2) 15% of its net electricity sales by December 31 2015;
- (3) 30% of its net electricity sales by December 31 2020;
- (4) 40% of its net electricity sales by December 31 2030;
- (5) 70% of its net electricity sales by December 31 2040; and
- (6) 100% of its net electricity sales by December 31 2045.

(b) The PUC may establish standards for each utility that prescribe what portion of the RPS shall be met by specific types of renewable energy resources; provided that....

For full text see: [http://www.capitol.hawaii.gov/hrscurrent/Vol05\\_Ch0261-0319/HRS0269/HRS\\_0269-0092.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol05_Ch0261-0319/HRS0269/HRS_0269-0092.htm) - HRS 269-92- RPS

2. **State support for achieving renewable portfolio standards.** HRS §196-41 (a) The department of land and natural resources and department of business, economic development, and tourism shall facilitate the private sector's development of renewable energy projects by supporting the private sector's attainment of the renewable portfolio standards in section 269-92. For full text see:

[http://www.capitol.hawaii.gov/hrscurrent/Vol03\\_Ch0121-0200D/HRS0196/HRS\\_0196-0041.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol03_Ch0121-0200D/HRS0196/HRS_0196-0041.htm)

3. **Energy-efficiency portfolio standards (EEPS)** – HRS §269-96 (a) The public utilities commission shall establish EEPS that will maximize cost-effective energy-efficiency programs and technologies.

(b) The EEPS shall be designed to achieve 4,300 gigawatt hours of electricity use reductions statewide by 2030... For full text see: [http://www.capitol.hawaii.gov/hrscurrent/Vol05\\_Ch0261-0319/HRS0269/HRS\\_0269-0096.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol05_Ch0261-0319/HRS0269/HRS_0269-0096.htm)

4. **Energy efficiency and environmental standards for state facilities, motor vehicles, and transportation fuel.** HRS §196-9 a) Each agency is directed to implement, to the extent possible, the following goals during planning and budget preparation and program implementation. (b) ....buildings and facilities, each agency shall:

(1) Design and construct buildings meeting the Leadership in Energy and Environmental Design silver or two green globes rating system...

(2) Incorporate energy-efficiency measures to prevent heat gain in residential facilities

(3) Install solar water heating systems where it is cost-effective....

(4) Implement water and energy efficiency practices ...

(5) Incorporate principles of waste minimization and pollution prevention...

(6) Use life cycle cost-benefit analysis to purchase energy efficient equipment...

For full text see: [http://www.capitol.hawaii.gov/hrscurrent/Vol03\\_Ch0121-0200D/HRS0196/HRS\\_0196-0009.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol03_Ch0121-0200D/HRS0196/HRS_0196-0009.htm)

5. **Hawaii Clean Energy Initiative Goals and Objectives:** (1) conserve—use what we need efficiently and (2) convert- harvest what we have wisely . For full text see:

<http://www.hawaiienergyinitiative.org/about-the-hawaii-clean-energy-initiative/goals-and-objectives/>

6. **HNEI RPS Study** - cost-effective pathways to support growth of renewables on Oahu and Maui to achieve RPS targets. See GE Study looking at 18 scenarios to evaluate combinations of renewable energy additions to achieve RPS by 2020/2030.

See technical report (2015)

<http://www.hnei.hawaii.edu/sites/www.hnei.hawaii.edu/files/Hawaii%20RPS%20Study%20-%20Final%20Report.pdf> and update presentation (2016):

<http://www.hnei.hawaii.edu/sites/www.hnei.hawaii.edu/files/Grid%20Stability%20in%20Hawaii%20Exec%20Summary%2004142016.pdf>

## **Transportation:**

1. **State support for achieving alternate fuel standards (AFS).** HRS §196-42. The State shall facilitate the development of alternate fuels and support the attainment of a statewide alternate fuels standard of 10% of highway fuel demand to be provided by alternate fuels by 2010, 15% by 2015, 20% by 2020, and **30% by 2030**. For full text see:

[http://www.capitol.hawaii.gov/hrscurrent/Vol03\\_Ch0121-0200D/HRS0196/HRS\\_0196-0042.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol03_Ch0121-0200D/HRS0196/HRS_0196-0042.htm) - **alternative fuel standards**

2. **Energy efficiency and environmental standards for the state...motor vehicles, and transportation fuel.** HRS §196-9 ( c) With regard to motor vehicles and transportation fuel, each agency shall:....

(3) Once federal and state vehicle purchase mandates have been satisfied, purchase the most fuel-efficient vehicles...; provided that life cycle cost-benefit analysis of vehicle purchase shall include projected fuel costs;

(4) Purchase alternative fuels....

(5) Evaluate a purchase preference for biodiesel blends....

(6) Promote efficient operation of vehicles...

For full text see: [http://www.capitol.hawaii.gov/hrscurrent/Vol03\\_Ch0121-0200D/HRS0196/HRS\\_0196-0009.htm](http://www.capitol.hawaii.gov/hrscurrent/Vol03_Ch0121-0200D/HRS0196/HRS_0196-0009.htm)

3. **Hawaii Clean Energy Initiative Transportation Goal: To reduce the consumption of petroleum in ground transportation by 70% (or approximately 385 million gallons per year) by 2030.** See full text: <http://www.hawaiienergyinitiative.org/energy-efficiency/transportation/>

4. **DBEDT ICCT STUDY (Aug 2015)** - DBEDT/International Council on Clean Transportation convened stakeholders to develop actionable tactics to reduce petroleum-based fuels in transportation and develop a new energy plan for the transportation sector (aviation, marine and ground) under HCEI. Criteria for tactics were petroleum reduction benefits, costs (savings outweigh implementation costs), social acceptability and likelihood of implementation, and recommended 22 tactics that could reduce petroleum use by 62-72 million gallons per year by 2030. For full text see: [http://www.hawaiienergyinitiative.org/wp-content/uploads/2015/02/Final\\_TransEnergyAnalysis\\_8.19.15.pdf](http://www.hawaiienergyinitiative.org/wp-content/uploads/2015/02/Final_TransEnergyAnalysis_8.19.15.pdf)