



***Integration and Installation Specialists***  
***Custom-Designed Residential, Commercial and Industrial Solutions***



Recap Power works provides Integration and Installation services of renewable energy systems. Recap supplies grid-tied and remote location solutions to residential, commercial, and industrial customers. After a site assessment, Recap will recommend relevant technologies, design and integrate the desired solution, and work with you to minimize interference with your busy schedule.

### **Mission Statement**

*To develop and implement clean energy generation technologies for residential, commercial, and industrial applications.*

### **Products and Services**

- **Solar Photovoltaic** – Revolutionary Solar Electricity Technologies
- **Solar Thermal** – Cost effective hot water solutions and air heating and cooling
- **Wind Turbines** – Small wind for homes or large wind farm systems
- **Backup Power** – Eliminate the inconvenience and discomforts of power outages
- **Integration** – based on site specific criteria, Recap will recommend the best technologies from available sources and pre-configure systems to minimize onsite work required.
- **Installation** – Professional and courteous technicians will provide hassle free installation and leave the site better than they found it.

*For more information about these and other renewable energy and heat systems contact:*

**Recap Power Works Inc.**

**Brian Pasquill, CEO**

**Cell: 250-218-1827**

**[brian@recappower.com](mailto:brian@recappower.com)**



## Photovoltaic Cells – Solar Panels

Solar photovoltaics (solar PV) is what people commonly refer to as solar panels. Technology is moving extremely rapidly in the development of solar PV with capture efficiencies increasing and cost per panel decreasing. Applications of this technology are also expanding to include an exciting new class of technologies called Building Integrated Photovoltaics (BIPV). These new products such as solar shingles, awnings and siding, improve the aesthetic appeal of solar PV.

In new developments Recap Power works with designers and builders to integrate solar PV and other technologies into a project from the outset to optimize generation efficiency, aesthetic appeal, and to minimize schedule interference. In the case of a retrofit, recap will address your power requirements with minimal interruption to your daily life. We customize the technology for you and work around your schedule to address your renewable energy needs.



On the West Coast of BC, solar PV is often integrated with other technologies to supplement the power generation. It is most often true here, that when the sun is not shining, the wind is blowing. A combination of technologies often provides the best solution for the customer.

To provide an accurate assessment of relevant technologies and associated pricing, Recap conducts a study of the particular installation site. Based on available solar radiation, site characteristics and economic considerations, Recap recommends a suitable system as well as a complete summary of installation costs and savings to the owner, including available government incentives.

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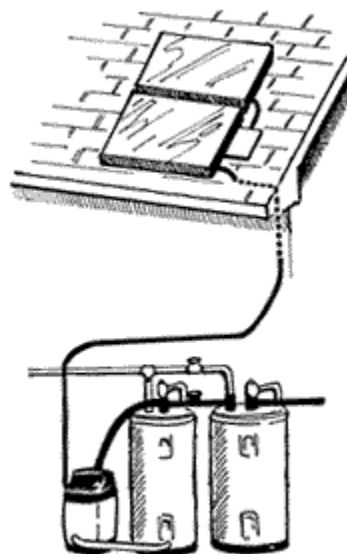
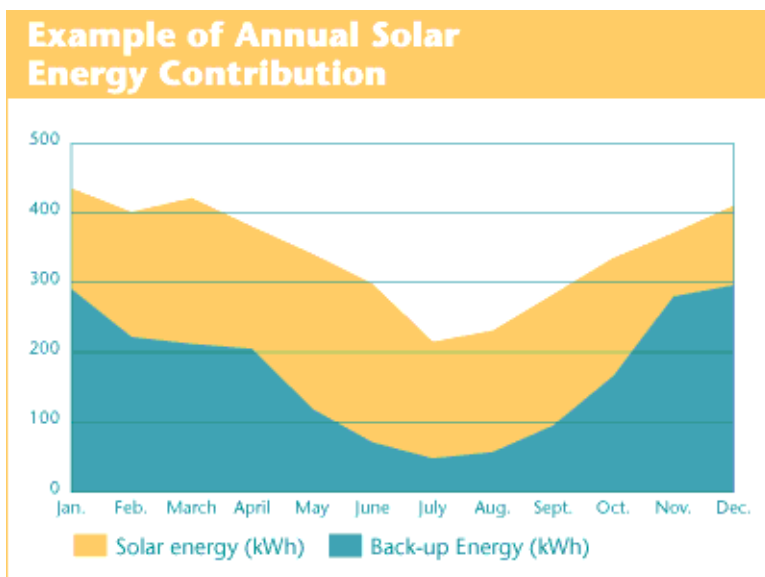
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## Solar Thermal Domestic Hot Water System

In a typical household, water heating accounts for 25-40% of the energy used and produces an average of two tons of green house gas emissions annually. Solar Domestic Hot Water (SDHW) systems are the most efficient and cost effective technologies to decrease this expense and reduce your environmental footprint. Solar Thermal collectors provide 80-90% efficiency at capturing solar radiation as opposed to Solar PV (electric) only between 10-20% efficient. The misconception that our climate does not provide sufficient sun, though widespread, is still incorrect.



To provide an accurate assessment of system sizing and associated pricing, Recap conducts a study of the particular installation site. Recap's solar thermal design process involves system sizing, component selection, and arrangement of required hardware as well as a complete summary of installation costs and savings to the owner including available government incentives (rebates up to 50% for commercial and industrial installations) available to decrease the cost of the system. The payback on these systems is very fast making this technology a good, clean investment.

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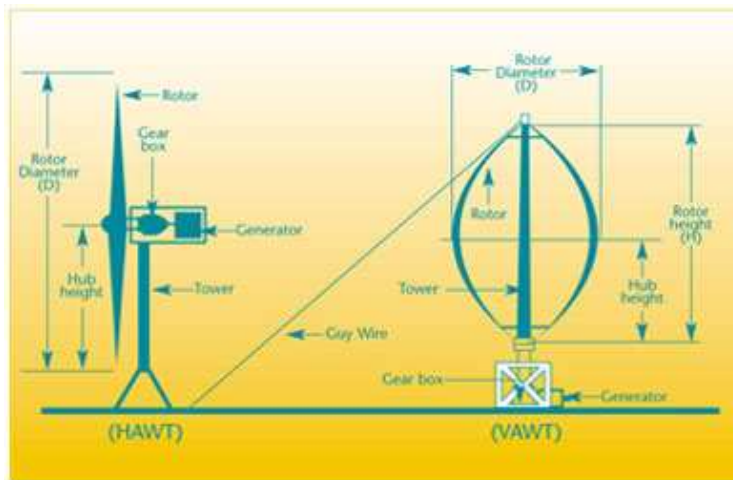
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## Wind Power

Wind energy is a pollution-free, infinitely sustainable form of energy. The wind turbine industry is growing extremely rapidly and the technologies are improving in tandem. Integrating wind into a household, commercial or industrial power generation system is a cost effective alternative energy solution. The majority of well designed West Coast alternative power systems will include some form of wind turbine as a supplement to other forms of generation.

There are two types of wind turbine: vertical and horizontal (as shown here).

A horizontal turbine is ideal for wide open spaces with no wind obstructions in the vicinity. They are mounted high in the air and are the most efficient way to capture wind energy.



The vertical turbine can be used in urban or treed areas where air turbulence occurs making horizontal turbines unsuitable. These vertical turbines do not need to be mounted on a high pole and are more aesthetically innocuous.

The cost of wind energy is determined by:

- the initial cost of the wind turbine installation
- the interest rate on the money invested
- the amount of energy produced based on prevailing winds

To provide an assessment of relevant technologies and associated pricing, Recap conducts a study of the particular installation site. Based on wind speeds, site characteristics and economic considerations, Recap recommends a suitable system as well as a complete summary of installation costs and savings to the owner, including available government incentives.

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## Off-Grid Power

British Columbia has many regions that are sparsely populated and somewhat inaccessible. Often, the nearest power line is several or even hundreds of kilometres away. In these circumstances Solar PV is often the most suitable technology. In these remote locations solar PV is commonly integrated with wind generation, solar thermal, and/or micro-hydro if it is available, plus a battery storage system. Recap can supply all of these. For regions with intermittent power in the storm season, Solar PV, wind, and battery backup can provide weeks of critical power supply.



The size and components included in a system will be customized by Recap to suit the location specific characteristics. Depending on the sources



available, an integrated system can include solar electric and solar thermal, wind, and micro-hydro, with battery backup to provide a constant source of clean power. Enjoy all the comforts of civilization without all of the crowds and traffic.

A Remote Area Power System (RAPS) provides:

- A cost effective alternative to the constant noise and maintenance of running a polluting generator.
- Constant power supply
- Low maintenance power
- Strong return on investment

To provide an accurate assessment of relevant technologies and associated pricing, Recap conducts a study of the particular installation site. Based on potential power sources, site characteristics and economic considerations Recap recommends a suitable system as well as a complete summary of installation costs and savings to the owner, including available government incentives.

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**Example System:**

## **HYBRID GRID ASSIST – SOLAR BACKED BY WIND**

**Preconfigured System Including Back-Up Power  
Professionally Installed By RECAP POWER WORKS**

*Up to 150 kWh Per Month of Solar plus Wind Power up to 400W  
per hour in strong winds and battery back-up*

### **System Components**

- 8 Mitsubishi MF125UE4N, 125 watt solar module
- 1 Two Seas UNI-TP/10LL Top of Pole Mount
- 1 Outback MX60 MPPT 60 amp, Charge Controller
- 1 10/2 Tray Cable 10/2 per foot
- 5 OBPV-15 Series protection breaker
- 1 MNPV-6, 6 position combiner box
- 1 Magnum Energy MS4024, 4000 watt Sinewave Inverter
- 1 Magnum Energy MERC-50 Inverter Remote
- 1 MNE250STM-R MidNite Magnum 250amp DC/120VAC
- 1 Magnum Energy ME AGS generator start module
- 2 LA302 DC Lightning Arrestor for DC Systems
- 1 LA302R Lightning Arrestor for 120/240v AC
- 2 MNEPV-63 amp DC Breaker din-rail mounted
- 1 Xantrex TM500 AH/Volt Meter With Shunt
- 1 4/0 - 120" UL Cable, Battery/Inverter (black)
- 1 4/0 - 120" UL Cable, Battery/Inverter (red)
- 1 4/0 - 12" UL Cable, Battery interconnect (black)
- 1 AIR X Land 24V, 400 watts, 24 volt
- 1 Stop Switch For AIR Air X
- 8 Surrrette 6v, 400 AH S530
- 8 2/0 - 12" UL Cable, Battery Interconnect (black)



**Installed Price = \$26,000 plus GST**

*This is an ideal West Coast alternative power system with solar and wind. So often on the coast when the sun is not shining, the wind is howling.*

*This array of Mitsubishi solar modules use 50 square poly-crystalline 156mm cells in series behind tempered glass with anodized aluminum frames, and Multi-Contact locking connector output cables.*

*The AIR-X is an evolution in wind turbine design. It is the first small wind turbine with a micro-processor controller.*



***\*When Feasible and Cost Effective We Prefer Canadian Technology\****



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