

HYDRO-ELECTRIC ENERGY

RUN-OF-RIVER POWER

Diverts part of the river flow through a turbine to generate electricity *without* the water storage required for traditional dam projects.

- ✓ Low-cost power
- ✓ Smaller environmental footprint

- ◆ Unable to store large amounts of energy
- ◆ Variable (seasonal)

Photo from Cordova, AK



Photo from Igiugig, AK

IN-RIVER HYDRO "HYDRO-KINETIC"

"Hydro-kinetic" electricity comes from a **turbine spinning underwater in a river**. Hydro-kinetic generators can be placed directly in the river *without* dams or diverters and can be located to minimize environmental impacts.

A RIVGEN SYSTEM LIKE THIS CAN POWER 5 - 10 HOUSES!

- ✓ Stable source of power
- ✓ Salmon-friendly

- ◆ Emerging technology

- ◆ Questions about winter performance



DAMS

TRADITIONAL HYDROPOWER

Dams block a river to create potential **energy stored behind a blockage**. To be a good source of energy, they need a large amount of water or a tall height to fall.



Photo from Cordova, AK

- 1 Talk with local & regional energy professionals in your community!
- 2 See an installation of hydropower in action



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WHAT CAN I DO?

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WHAT'S NEW?

- Ocean tidal movement can generate **tidal power** which is being tested in selected locations worldwide.