

HYDR - 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.

- ✓ Stable source of power
- ✓ Salmon-friendly
- ✖ Emerging technology
- ✖ Questions about winter performance

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



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.

- ✓ Mature technology
- ✓ Long lifespan & low maintenance
- ✖ Environmental tradeoffs
- ✖ Larger environmental footprint

Photo from Cordova, AK

WHAT CAN I DO?

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



WHAT'S NEW?

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