

# Tillamook School District

TILLAMOOK, OREGON

## Services

MEP Engineering  
Building Technologies  
Lighting

### FAST FACTS

#### Architect

Carlson Veit Architects

#### General Contractor

Corp Inc. Construction

#### Completion

May 2005

#### Building Size

100,000 sf

#### Project Cost

\$4.5 million

#### Contact

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When the Tillamook School District found themselves needing to bring three older schools up to current code and with energy demand charges equal to 40 percent of the budget, they knew to turn to Interface Engineering for innovative energy solutions. Interface provided HVAC design for the Junior High School, Liberty Elementary and East Elementary, plus plumbing upgrades throughout the Junior High School.

Because Tillamook has no natural gas available for boilers, the schools have been dependent on costly electrical resistance wall heaters, which were replaced by Interface-specified large capacity air-to-water heat pumps. These hydronic systems push hot or cold water through coils and the air handling units, then blow air past the coils to heat or cool the air.

Code also requires that each space gets enough ventilation (outside) air, which the school previously did not have. As the air-to-air heat exchangers operate, they pull heat from the exhaust air leaving classrooms and take it to heat air coming in from the outside. The school will not only realize considerable energy savings, but will receive a significant amount of incentive money from the Oregon Department of Energy as well.



As the high school needed a new roof, the old flat roof was replaced with a pitched roof providing space for nine new air handlers, saving both energy and operating costs.