

50 ENERGY EFFICIENCY NOTE 50

TURN OUT THE LIGHTS



TURNING OUT THE LIGHTS FOR TWO HOURS SAVES FIFTY DOLLARS EVERY YEAR

SERIES 1996

Flip D. Switch
Energy Manager



A.2

A.107

THE STATE OF TEXAS



SAVE ENERGY

Seymour Cash
Chief Taxpayer
of the State of Texas

50

50 ENERGY EFFICIENCY NOTE 50

TURN OUT THE LIGHTS



TURNING OUT THE LIGHTS FOR TWO HOURS SAVES FIFTY DOLLARS EVERY YEAR

SERIES 1996

Flip D. Switch
Energy Manager



A.2

A.107

THE STATE OF TEXAS



SAVE ENERGY

Seymour Cash
Chief Taxpayer
of the State of Texas

50

TURNING OUT THE LIGHTS AN EXTRA 2 HOURS A DAY SAVES \$50 EVERY YEAR

THE \$50 BILL...

YOURS TO KEEP OR YOURS TO PAY!
ASSUMPTIONS AND CALCULATIONS:

If conditions differ at your school it is easy to recalculate your specific costs. The costs will still be huge at half this amount. If every teacher in Texas remembered to turn out the lights for two extra hours per day it would save over \$14 MILLION dollars every year. How many scholarships would that be? How many classrooms are in your district? Can your school district afford an extra \$25 to \$50 per classroom every year? Wouldn't you rather spend the money on books or supplies for your class?

Each classroom is assumed to have 9 – four foot light fixtures with four fluorescent tubes each (or an equivalent). Such a fixture requires 192 Watts of electricity (4 tubes at 40 Watts each plus 20% for ballasts). The school year is assumed to last 180 days. Electricity is assumed to cost \$0.08 (8 cents) per kilowatt hour (kWh). Two hours per day was chosen based on a teacher leaving the classroom at lunch for one hour and one other hour during the day (for example, preparation period, recess, the first hour after school.)

$$\begin{aligned} 19 \text{ fixtures} \times 192 \text{ W} &= 1729 \text{ W} \times 2 \text{ hours} \times 180 \text{ days} \\ &= 622,080 \text{ W} / 1000 \text{ W} = 622 \text{ kWh} \\ &\text{(to convert to kilowatt hours)} \\ \mathbf{622 \text{ kWh} \times \$0.08} &= \mathbf{\$49.76} \end{aligned}$$

Watt Watchers of Texas
<http://wattwatchers.org>
1-888 US WATTS (1-888-879-2887)
info@wattwatchers.org

Sponsored by the Texas Comptroller of Public Accounts, State Energy Conservation Office, and the U.S. Department of Energy.

TURNING OUT THE LIGHTS AN EXTRA 2 HOURS A DAY SAVES \$50 EVERY YEAR

THE \$50 BILL...

YOURS TO KEEP OR YOURS TO PAY!
ASSUMPTIONS AND CALCULATIONS:

If conditions differ at your school it is easy to recalculate your specific costs. The costs will still be huge at half this amount. If every teacher in Texas remembered to turn out the lights for two extra hours per day it would save over \$14 MILLION dollars every year. How many scholarships would that be? How many classrooms are in your district? Can your school district afford an extra \$25 to \$50 per classroom every year? Wouldn't you rather spend the money on books or supplies for your class?

Each classroom is assumed to have 9 – four foot light fixtures with four fluorescent tubes each (or an equivalent). Such a fixture requires 192 Watts of electricity (4 tubes at 40 Watts each plus 20% for ballasts). The school year is assumed to last 180 days. Electricity is assumed to cost \$0.08 (8 cents) per kilowatt hour (kWh). Two hours per day was chosen based on a teacher leaving the classroom at lunch for one hour and one other hour during the day (for example, preparation period, recess, the first hour after school.)

$$\begin{aligned} 19 \text{ fixtures} \times 192 \text{ W} &= 1729 \text{ W} \times 2 \text{ hours} \times 180 \text{ days} \\ &= 622,080 \text{ W} / 1000 \text{ W} = 622 \text{ kWh} \\ &\text{(to convert to kilowatt hours)} \\ \mathbf{622 \text{ kWh} \times \$0.08} &= \mathbf{\$49.76} \end{aligned}$$

Watt Watchers of Texas
<http://wattwatchers.org>
1-888 US WATTS (1-888-879-2887)
info@wattwatchers.org

Sponsored by the Texas Comptroller of Public Accounts, State Energy Conservation Office, and the U.S. Department of Energy.