SUSTAINABLE ENERGY & A CLEAN ENVIRONMENT
Healthy Air
April 28, 2015
Healthy Air

ONE OF THE BIGGEST risks to human health today
What Happens

PUBLIC HEALTH
- Pollution exposure
- Property values
- Relocation
- Health care costs

ECONOMIC IMPACT ON BUSINESS
- More stringent regulation
- Expensive pollution controls
- Affects expansion and new business

LOCAL GOVERNMENT
- Costs to implement plans
- Community stigma
- Growth limiter
Goal 3: 3.3

INCREASE PERCENT OF POPULATION LIVING WHERE AIR QUALITY MEETS FEDERAL STANDARDS FROM 92% TO 100% BY 2020.
100% of WASHINGTON meeting federal air quality standards
HISTORY OF MEETING STANDARDS

Percent of population


Percent  Target

0% 100%
Goal 3: 3.3.b

INCREASE NUMBER OF WOODSTOVES REPLACED WITH CLEANER BURNING TECHNOLOGIES FROM 2,777 TO 4,000 BY 2016.
WOODSTOVES

Woodstoves Changed Out

0 500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500

Woodstoves Changed Out

12-Mar 2,178
12-Jun 2,321
12-Sep 2,362
12-Dec 2,386
13-Mar 2,514
13-Jun 2,777
13-Sep 2,935
13-Dec 3,015
14-Mar 3,127
14-Jun 3,258
14-Sep 3,301
14-Dec 3,435
15-Mar 3,575
15-Jun 2016 Target
15-Sep
15-Dec

Actual

2016 Target
PM$_{2.5} = 5 \, \mu g/m^3$

long-term mortality
ER visits-asthma
hospital admissions
respiratory symptoms
acute bronchitis
lung function decrements
short-term mortality
Relative Emissions of Fine Particles

Woodburning Fireplace
Uncertified Woodstove
EPA Certified Woodstove
Pellet Stove
Oil Furnace
Gas Furnace or Stove
Electric Heat

VERY DIRTY

VERY CLEAN
Steve and Valerie Webber

Pierce County Woodstove Program
Tacoma
Pierce County
Grants and Buybacks

Wood stove buyback
Program continues in greater Tacoma area with buyback rewards of up to $350

More>
Clean stack
Community Meetings

Puyallup meeting
Goal 3: 3.3.a

DECREASE TONS OF TOXIC DIESEL AIR POLLUTION Emitted FROM MOBILE SOURCES FROM 6,444 TONS TO 5,248 TONS BY 2016.
Diezel Pollution

Goal 3: 3.3.a Decrease tons of toxic diesel air pollution emitted from mobile sources from 6,444 tons to 5,248 tons by 2016.

<table>
<thead>
<tr>
<th>Year</th>
<th>Actual</th>
<th>Original Target</th>
<th>Revised Target</th>
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<tr>
<td>2005</td>
<td>9,896</td>
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<td>2010</td>
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EMERGENCY RESPONSE VEHICLES & MORE
AIR pollution in Washington is improving