



Incentives How to Close PGM Cycle

Karsten Krause
European Federation for Transport and Environment

Structure

1. Recycling of PGM inside and outside the EU

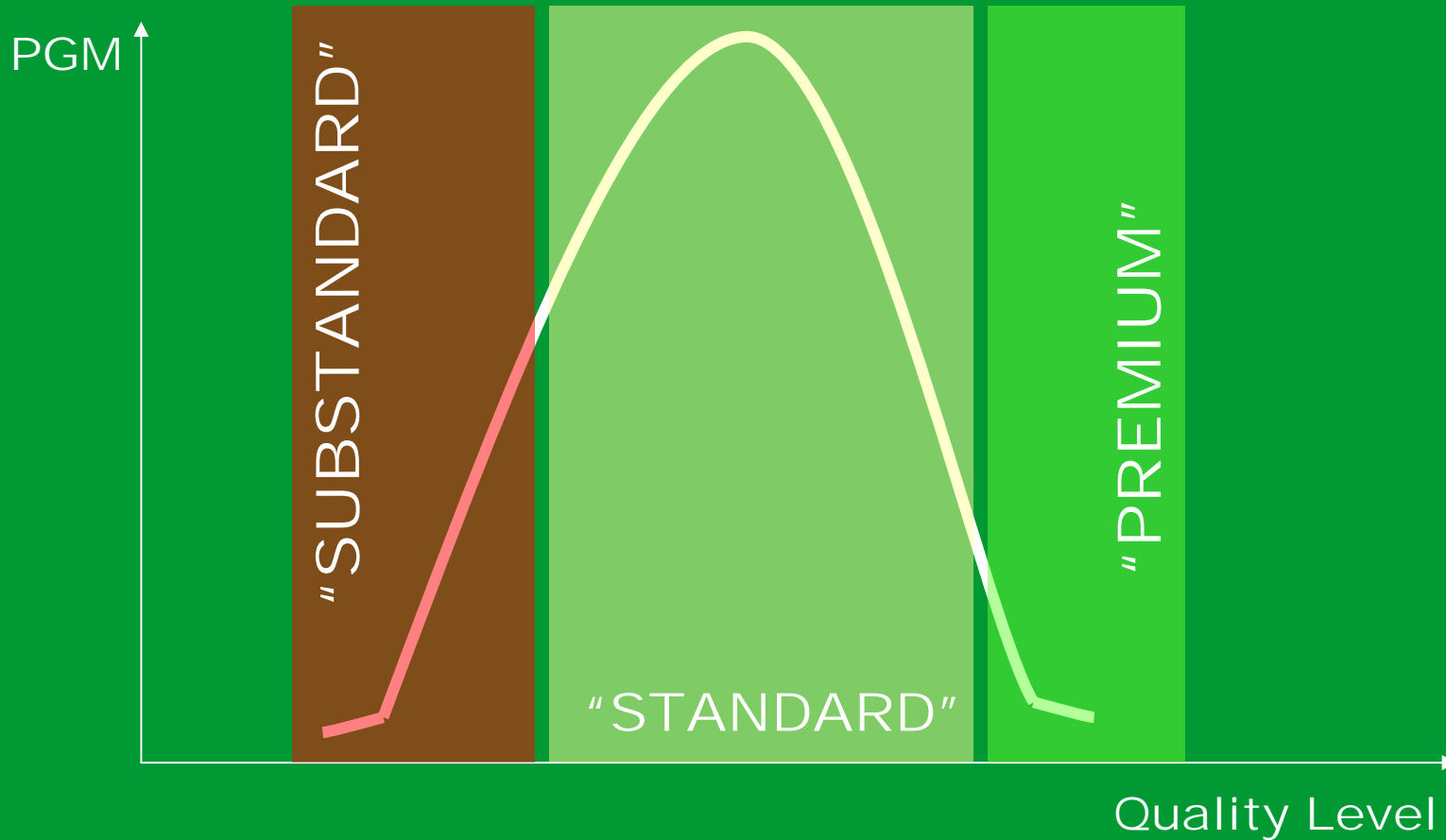
- Improving the End-of-Life Directive
- Collecting PGM from exported vehicles

2. Differentiating between “good” and bad PGM

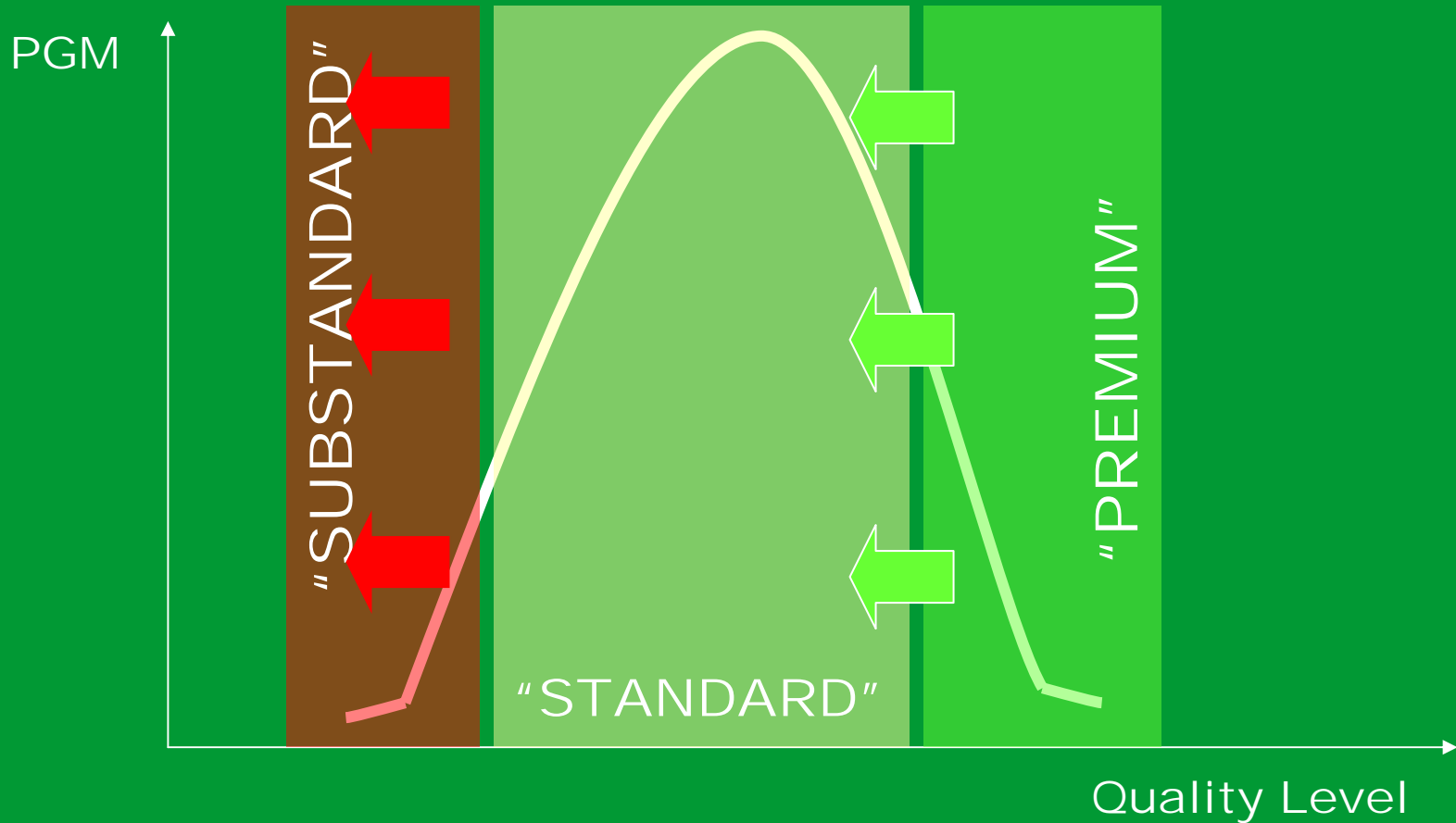
- PGM Sustainability Criteria
- Awareness of OEMs and policy makers

3. Next Steps

PGM Supply Curve



PGM Supply Curve ...



Differentiating between “good” and “bad” PGM



PGM Sustainability Criteria

Environmental Efficiency

- Pollution during production
- Nature Conversation

Social Effects



- Workers Protection
- Regional Development

Economic Dimension

- PGM Price Levels
- Polluter-pays Principle

PGM

Sustainability

| More efficient | | |
|--|---------------|---|
| A | | |
| B | | |
| C | | |
| D | | |
| E | | |
| F | | |
| G | | |
| Less efficient | | |
| Energy consumption kWh/cycle <small>(based on standard test results for 60 C cotton cycle)</small> <small>Actual energy consumption will depend on how the appliance is used.</small> | 1.05 |  |
| Washing performance <small>A: higher G: lower</small> | A B C D E F G | |
| Spin drying performance <small>A: higher G: lower</small> Spin speed (rpm) | 1400 | A B C D E F G |
| Capacity (cotton) kg | 5.0 | |
| Water consumption ℓ | 55 | |
| Noise (dB(A) re 1 pW) | Washing | 52 |
| | Spinning | 70 |
| Further information is contained in product brochures | |  |
| <small>Norm EN 50226 Washing Machine Label Directive No 96/21/EC</small> | | |

PGM Sustainability Criteria

Examples

- *Forest Stewardship Council (FSC)*
- *Palmoil Production*
- *To come: Sustainability Criteria for Biofuels*

Recycling of PGM



Recycling inside the EU

Challenges

- *Non-harmonised implementation of the End of Life Directive*
- *Exports of old vehicles to third countries*

NGO Demands

- *Benchmarking of all EU Member States*
- *Eco-Design of new vehicles*
- *Producer Responsibility beyond EU borders*

Recycling outside the EU

Challenges in Third Countries

- *Dismantling of “unneeded” parts, like catalytic converters, from imported used cars to improve performance*
- *Uncontrolled recycling of old cars*

NGO Demands

- *EU should support national car recycling systems*
- *Take-back responsibility*
- *Establish markets for collected catalytic converters*

Next Steps

Information gathering

- Challenges
- Alternatives

Pilot Projects

- Better Recycling
- Improving PGM Production

Improving the Markets

- Voluntary Approaches
- Economic Incentives



European Federation for
TRANSPORT and ENVIRONMENT

And now...





Thank you for your attention.

www.t-e.nu