

Challenges faced and Achievements by Two-Wheeler manufacturers

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Overview of India's Emission Regulation

Technology Evolution 1991 - 2000

Technology Evolution 2000 - 2010

Technology Evolution 2010 - 2020

Major challenges – BSIV to BSVI

Upcoming further challenges post BS6

Future challenges

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Overview of India's Emission Regulation for 2 wheeler





Overview of reduction in various pollutants



Be the Future of Mobility











Significant Reduction in all pollutant limit & introduction of NMHC limit

Managing Cold Emission & Introduction of OBD1

Durability & Safety of emission component





High emission during cold take off

- Almost 80% NMHC/THC is produced in cold phase.
- Smart calibration strategy required
- More flexibility in fuel control, Ignition.

Early catalyst light off

- CATCON moved towards exhaust
- CAT volume optimized.
- Improvement in washcoat, PGM loading process &

Adequate Injector selection







Upcoming further challenges post BS6



Future challenges



Challenges are what make life interesting and overcoming them is what makes life meaningful

Joshua J. Marine



