

Comparison of Reporting Requirements for The Climate Registry (TCR), The California Climate Action Registry (CCAR) and The California Air Resource Board's Mandatory Reporting Program

Revised April 2008

	TCR GRP Version 1.0 (March 2008)	CCAR GRP Version 3.0 (April 2008)	CARB: AB 32
Purpose	Voluntary Reporting Registry	Voluntary Reporting Registry	Mandatory Reporting Program; facilities in 5 industrial sectors report, as well as general stationary combustion (GSC) $\geq 25,000$ MT CO ₂
Geographic Scope	North American emissions; Worldwide optional	CA emissions; U.S. and worldwide optional	CA emissions and electricity imports (MWh)
Reporting Level	Facility-level Allowed to aggregate certain facility types (commercial buildings, fleets, and other) at the state/provincial level	Entity-level required; facility encouraged	Facility-level for CA; CA entity-level optional for facilities and equipment outside regulation
Consolidation Methodology	1. Control, with Equity Share investments, OR 2. Control and Equity Share (emissions) (Control = operational or financial)	1. Equity share OR 2. Control (Control = operational or financial) OR 3. Equity share and control	Operational control
Gases	6 Kyoto Gases (CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆)	6 Kyoto Gases (CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆)	6 Kyoto Gases (CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆)
Emissions Scope	Direct (Scope 1) and Indirect (Scope 2); Scope 3 Optional	Direct (Scope 1) and Indirect (Scope 2); Scope 3 Optional	Direct stationary combustion, specified process/fugitive emissions from primary sector facilities and indirect energy usage (MWh, Btu)
Calculating Direct Emissions	Emission factors from U.S. EPA and IPCC *CH ₄ & N ₂ O from EPA Climate Leaders (2004 data) ** Carbon conversion=3.667 (44/12)	Emission factors from U.S. EPA, IPCC, EIA, CEC and CARB *CH ₄ & N ₂ O from EIA (2000) ** Carbon conversion=3.667 (44/12)	Emission factors and estimation methods in regulation from U.S. EPA, IPCC, U.S. EIA, CEC, and CARB. Some source specific factors allowed with CARB approval ** Carbon conversion=3.664
Mobile Sources	Required Can aggregate mobile sources by geographic location (state/province or national) and/or vehicle type	Required	Optional
Calculating Indirect Emissions	eGRID power pool-specific emission factors (2004 data) *CH ₄ & N ₂ O by region from EPA Climate Leaders (2004 data)	eGRID power pool-specific emission factors (2004 data) *CH ₄ & N ₂ O by state from EIA (2000 data)	Emission factors from in state power plant reported emissions; data on electricity imports can be used to attribute emissions by provider/deliverer
Base Year and Threshold for Updating	First year of complete reporting; base year updated with organizational change that results in >5% change in emissions	Reporters can specify; if specified, base year updated with structural change that results in $\geq 10\%$ change in emissions	State goals based on 1990 levels; 2008 emissions are the first year of reported data
De Minimis/ Estimated Emissions	Emissions may be estimated for up to 5% of total emissions; Required to disclose 100% of emissions inventory in reporting tool CRIS	Emissions may be estimated for up to 5% of total emissions (classified as de minimis); Required to disclose 100% of emissions inventory in reporting tool CARROT	May use simplified estimation techniques for up to 3% of total emissions (below 20,000 Mt CO ₂ e)

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Global Warming Potentials	IPCC (SAR) Include some TAR values (when no SAR)	IPCC (SAR)	IPCC (SAR)
Government Reporting	Government agencies and departments can report as separate entities until their parent agency reports, at which time the “parent agency” will absorb the sub agency report	Government agencies and departments can report as separate entities	Not required
Efficiency Metrics	Optional	Required for some sectors	Required for some sectors
Verification	Required: Third-party verification annually; Risk based assessment If report worldwide emissions, must be verified	Required: Third-party verification annually; Risk based assessment If report worldwide emissions, data can be stored in CARROT, verification is optional & not recognized	Required: Third-party verification; Verifiers visit all facilities; Required annually from most facilities, triennially from specified facilities
Reporting Timeline	June 30 th for emissions report; December 15 th for verification opinion	June. 30 th for emissions report; Oct. 31 st for verification opinion (extensions available in 2008)	April 1 or June 1, depending on sector; verification opinion due six months later