

Energy & Store
Development Conference

E+Sd

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Remodels & R-22 — EPA: What you need to know

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Today's Presentation



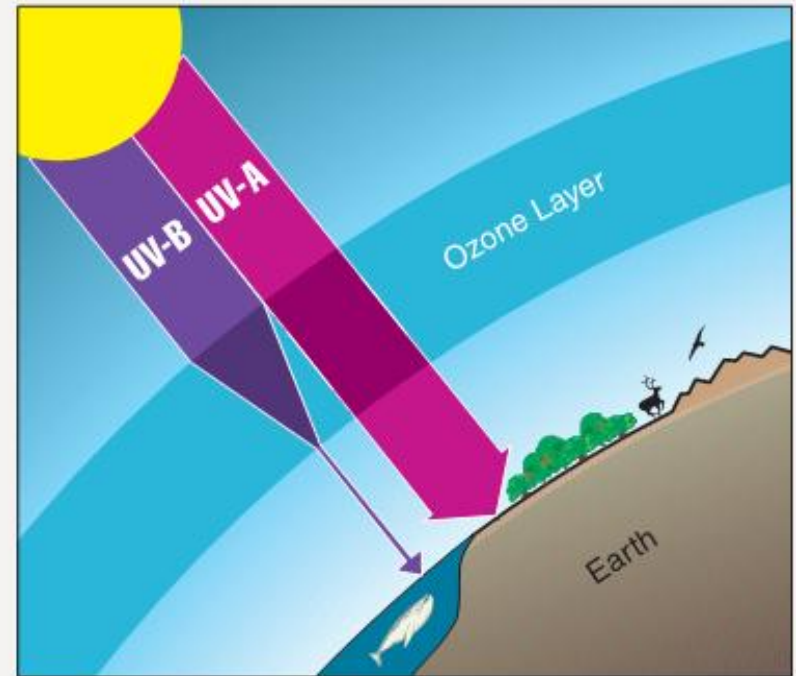
- HCFC Phaseout
- Regulatory update: R-22 production/import
- Rules on R-22 use in new, existing and expanded R-22 systems

Why phase out HCFCs?



- HCFCs deplete the stratospheric ozone layer
- Ozone layer shields Earth from ultraviolet radiation:
 - Skin cancer
 - Cataracts
 - Weakened immune systems
 - Damage to plant life, aquatic ecosystems

UV Protection by the Ozone Layer



How EPA phases out HCFCs



- EPA implements the Montreal Protocol and the Clean Air Act
- Goal has always been to gradually and smoothly transition away from HCFCs
 - Focus on R-22, it's 90+% of HCFC use
- EPA writes rules that issue allowances for import and production of virgin R-22
 - Allowances decrease over time
 - No allowances in 2020 or beyond

HCFC phaseout timeline



- **January 1, 2010:** R-22 may only be produced or imported for use in pre-2010 systems and for regular servicing & maintenance on those systems
- **January 1, 2015:** Allowed production/import will be at least 45% below 2010 level, as required by the Montreal Protocol
- **January 1, 2020:** No production or import of HCFC-22
 - Used, recovered and recycled material can still be used
 - Virgin material imported or produced before Jan. 1, 2020 can still be used until 2030

Regulatory update



- EPA sets the amount of R-22 that can be produced/imported each year
- 2015-2019 HCFC Proposed Rule under review
 - Expected late 2013
 - Final Rule expected in late 2014

Year	Amount
2013	63 million lbs
2014	51 million lbs
2015-2019	TBD
2020	No new production/import

Rules on R-22 use



- Virgin R-22 is only allowed for maintenance and repair (i.e. servicing) of existing systems
 - New systems may NOT use virgin R-22
- Changes to an existing R-22 system that **expand the system (increase the cooling capacity)** are not considered regular servicing/maintenance
 - Virgin R-22 may not be used
 - Entire system must now use recovered or reclaimed R-22
- EPA recommends keeping detailed records of **recovered or reclaimed** R-22 used

Recommended recordkeeping



- EPA recommendations if you expand a system:
 - Track refrigerant details (Reclaimed? Recovered? From where?) along with required recordkeeping
 - Keep records showing that every subsequent charge is with reclaimed R-22, or R-22 that you have recovered from other systems you own
 - To that end, document when you pull R-22 from retiring systems, especially if you intend to reuse it elsewhere
- Work with your reclaimer!

Other Updates



- Leak repair rule
 - Between proposed and final
- Venting Prohibition for hydrocarbon refrigerants
 - Between proposed (April, 2013) and final
- SNAP
 - President's Climate Action Plan: stakeholder meeting on August 22
 - Sector-specific workshops underway
 - Additional alternatives listed as acceptable (April 2013)
 - Anticipate additional listings in 2014

Contact Info

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- Wayne and I will take questions at the end