

EMFACTTM Introduction

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- ➤ What is EMFACTTM?
- ➤ What reports can EMFACT[™] produce?
- **►**EMFACT[™] features
- ➤ How to get started?



- ➤ EMFACT[™] is an acronym for **Energy & Materials Flow & Cost Tracker**
- > Collaboration between :
 - ➤ Northeast Waste Management Officials' Association (NEWMOA)
 - ➤ Massachusetts Office of Technical Assistance & Technology (MA OTA)
- > Free software tool
 - o www.newmoa.org/prevention/emfact/register.cfm



Sponsors: Consultants:

➤ NEWMOA ➤ Sullivan International

➤ MA OTA ➤ EMARIC

Funder:

➤ U.S. EPA ORD Collaborative Science & Technology for Sustainability Network



Environmental Management Accounting or Materials Accounting enhances the ability of manufacturers & others to:

- make decisions
- > set priorities

related to consumption of resources through tracking & analyzing their flow & associated costs

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- ➤ Assist with implementing **LEAN & green** reducing waste & associated costs
- ➤ Addresses demands for greater transparency in supply chains
- ➤ Help implement **pollution prevention**
- ➤ Small & medium-sized firms have not had software tool for materials accounting



- ➤ A fully developed, easy-to-use, & well-documented energy, materials, chemicals, releases, & associated costs tracking & data analysis software tool
- ➤ Well-developed training support materials & a user's guide
- **➢** Online downloadable free access
- **≻**Training

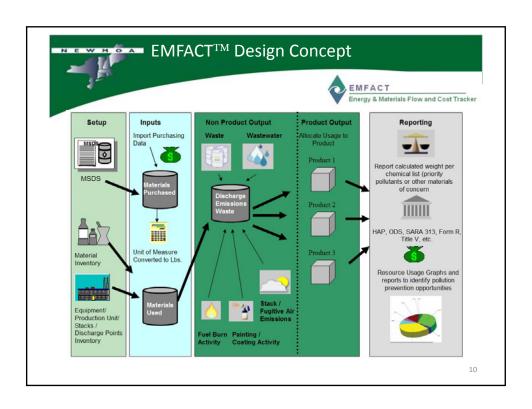


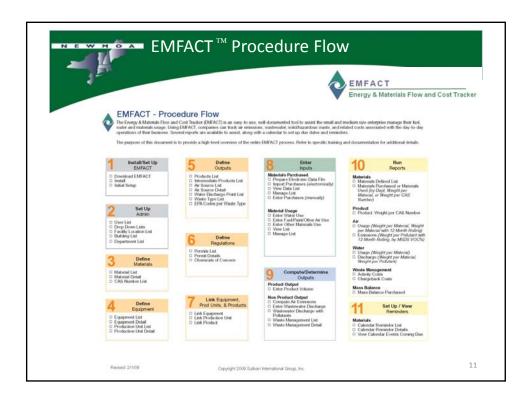
- ➤In Phase 1 designed to help users understand & analyze their materials (including water & fuels) & chemical use in one or more facilities
- ➤ Designed to help track fuels, (i.e., oil, natural gas, coal, or bio-based fuels); treats these material inputs the same as others

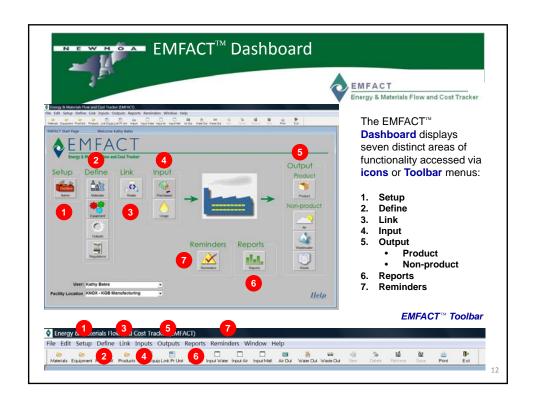


Phase 2:

- ➤ Enhance to enable users to track & evaluate use & purchasing of electricity
- ➤ Seeking support for upgrades









- ➤ Designed to enable data input & data analysis & reports based on equipment, production unit, or entire facility maximizes **flexibility** depending on user interests & needs
- Manages lists of equipment, materials, & chemicals
- ➤ Pre-populated with numerous lists focusing on federal regulatory lists & thousands of CAS numbers



- ➤ Includes **21 boiler plate reports** to help users track products, air, water, & waste
- Filters enable user to define report parameters
- ➤ SEARCH window enables searching by a variety of fields output can be saved to Excel
- ➤ Reports Procedure Guide:
 www.newmoa.org/prevention/emfact/ReportGuide.pdf



- ➤ Materials & chemicals **purchased & used** *per equipment, production unit, facility;* costs
- Materials & chemicals purchased & used incorporated into product vs. non-product output; costs
- ➤ Non-product output reports for air emissions, including 12- month rolling averages
- ➤ Water pollutant outputs as well as water usage
- ➤ Waste activity reports; grouped by waste type



- ➤ Mass Balance Reports available at many levels
- Complex reports to generate need all inputs & outputs in same units (generally pounds)
- Helps user to ensure units are consistent& appropriate conversions are made

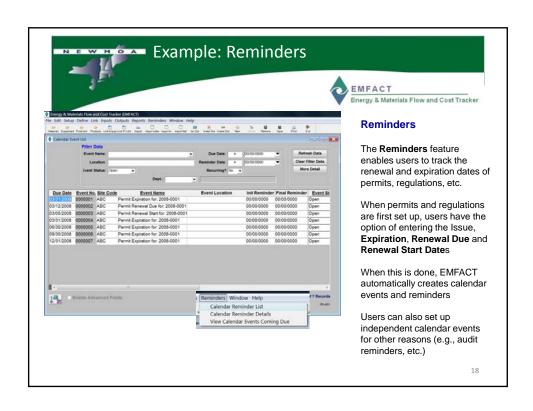


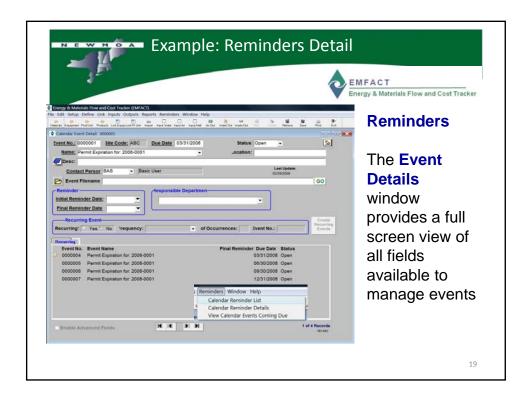
Lists of regulated chemicals:

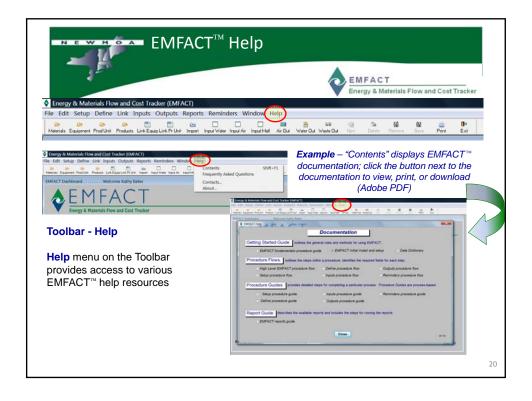
- ➤ SARA 313
- ➤ Hazardous Air Pollutants (HAPs)
- ➤ Ozone Depleting Substances Classes I & II
- ➤ Ability for users to add chemical lists

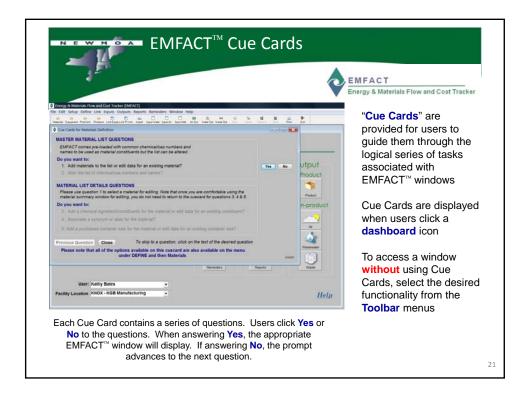
Reminders:

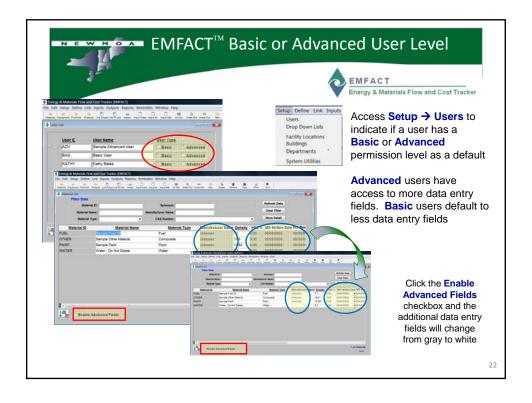
- ➤ Screens to list & describe permits
- ➤ Calendar with event reminders (e.g., permit renewal)

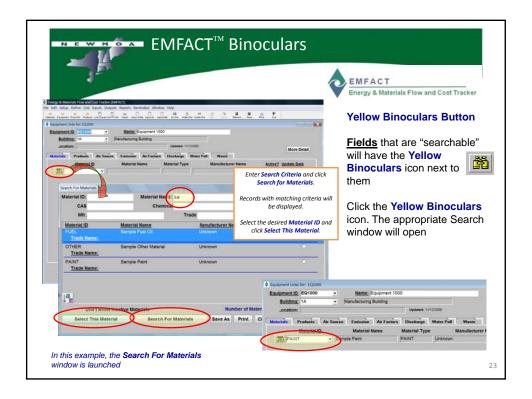


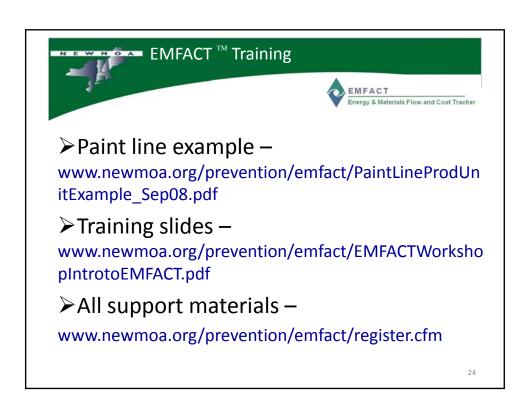














- ➤ Upgrading EMFACT addressing issues identified to date
- ➤ Developing case studies
- ➤ Developing online e-learning
- ➤ Seeking funding for Phase 2 expansions & upgrades



- ➤ More on what is EMFACTTM newmoa.org/prevention/emfact/about.cfm
- ➤ Downloading (including registration) newmoa.org/prevention/emfact/register.cfm



