

Renewable Fuels Association



“THE VOICE OF THE ETHANOL INDUSTRY”

FOR OVER 25 YEARS

BOB DINNEEN, PRESIDENT

**RUNNING ON ETHANOL?
WHAT WILL IT TAKE TO IMPLEMENT THE RFS?**

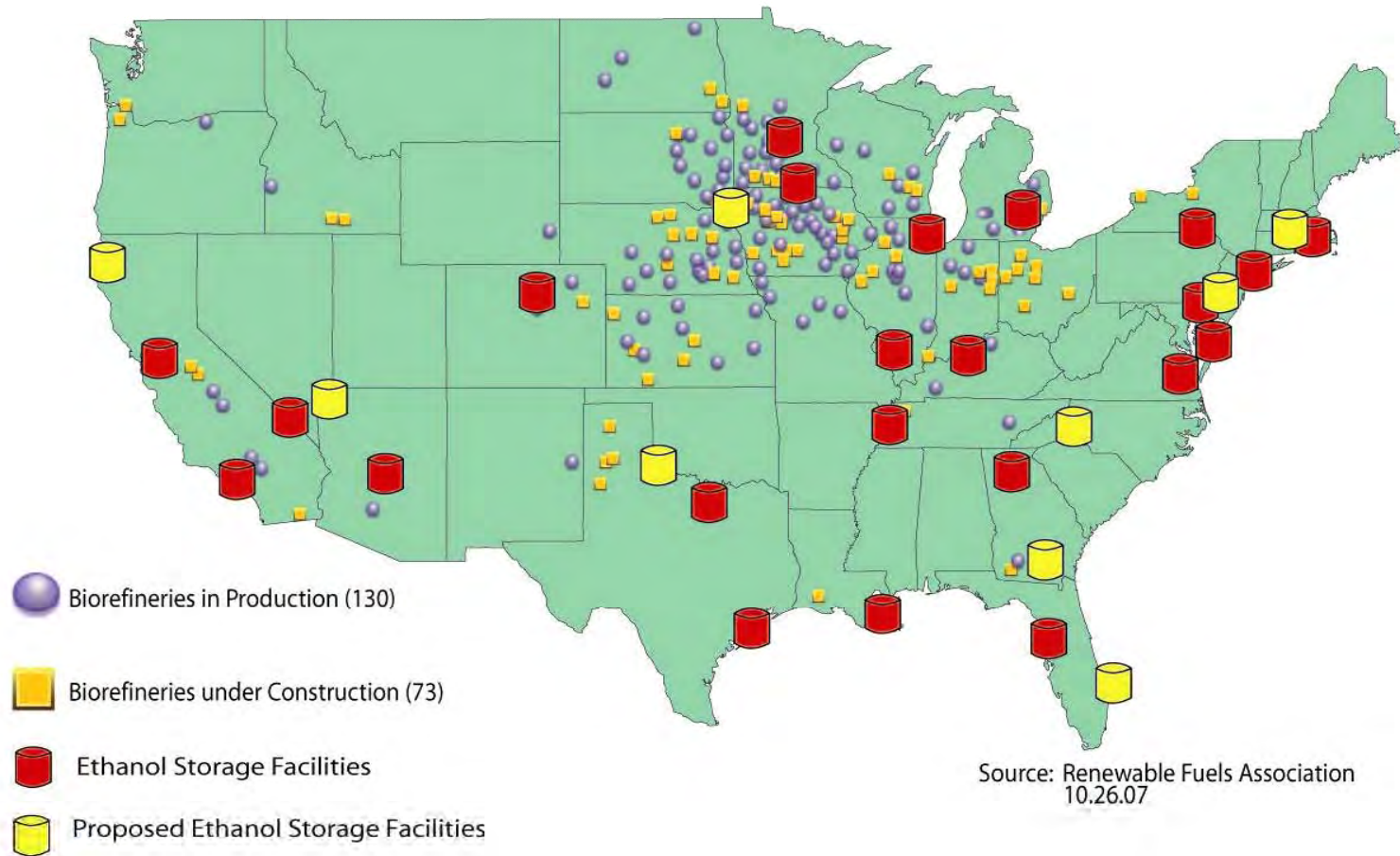
Energy Independence and Security Act 2007



- **Annual requirements for renewable fuel usage**
 - Relief of foreign oil dependence
- **Promotes investment in renewable fuel research and development**
 - Secures financial bases
- **Expands resources for fuel production, new feedstocks**
 - Allows for renewable fuel production in every country, every state across America

Year	Conventional	Advanced	Total RFS
2008	9 billion		9
2009	10.5 billion	0.7	11.1
2010	12 billion	1.25	12.95
2011	12.6 billion	1.9	13.95
2012	12.6 billion	3.0	15.2
2013	13.2	5.5	16.55
2014	13.8	7.5	18.15
2015	14.4	10.5	20.5
2016	15	14.5	22.25
2017	15	18	24
2018	15	22	26
2019	15	26	28
2020	15	30	30
2021	15	36	33
2022	15	42	36

Major Ethanol Storage Terminals



What it takes to keep product moving..

Transportation is 3rd Highest Cost at a Plant

Typical Ethanol Plant capacity:
100 Million Gal./ Year

- ☞ Logistics needs per year
 - ☞ 3448 railcars of Fuel Ethanol
10 tank cars per day
 - ☞ 9867 railcars of Corn
60% by Rail, 17 railcars per day
 - ☞ 3048 railcars of DDGs
9 hopper cars per day

Building a Unit Train

↴ 4 mile track loop to hold up to 100 railcars

↴ Multiple Major Railroad Access:

? All Class I Railroads: UP, BNSF, NS, CSX, CN

↴ Ethanol Plants with train build capability:

Heron Lake

Aurora

Ashton

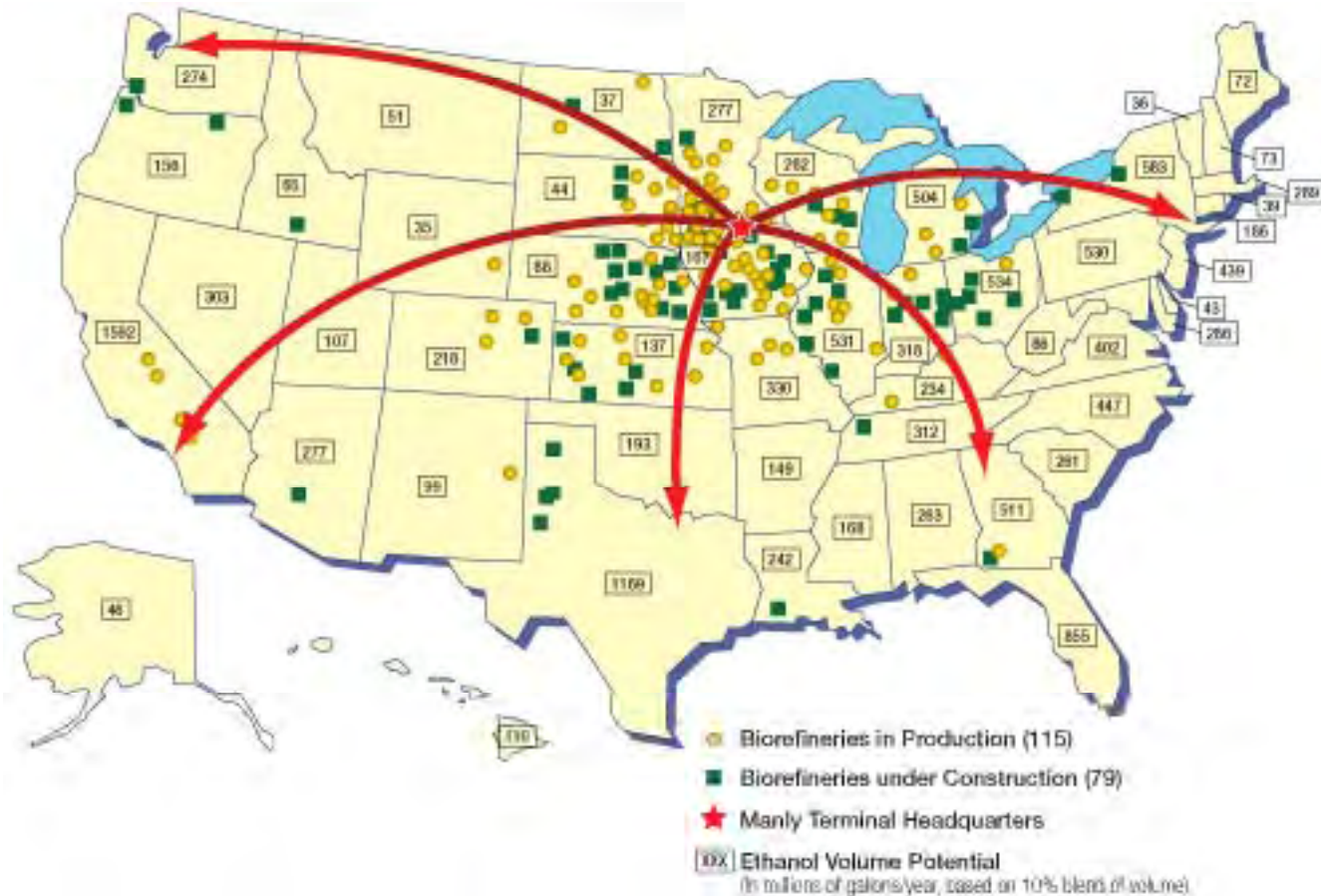
Albion

Charles City

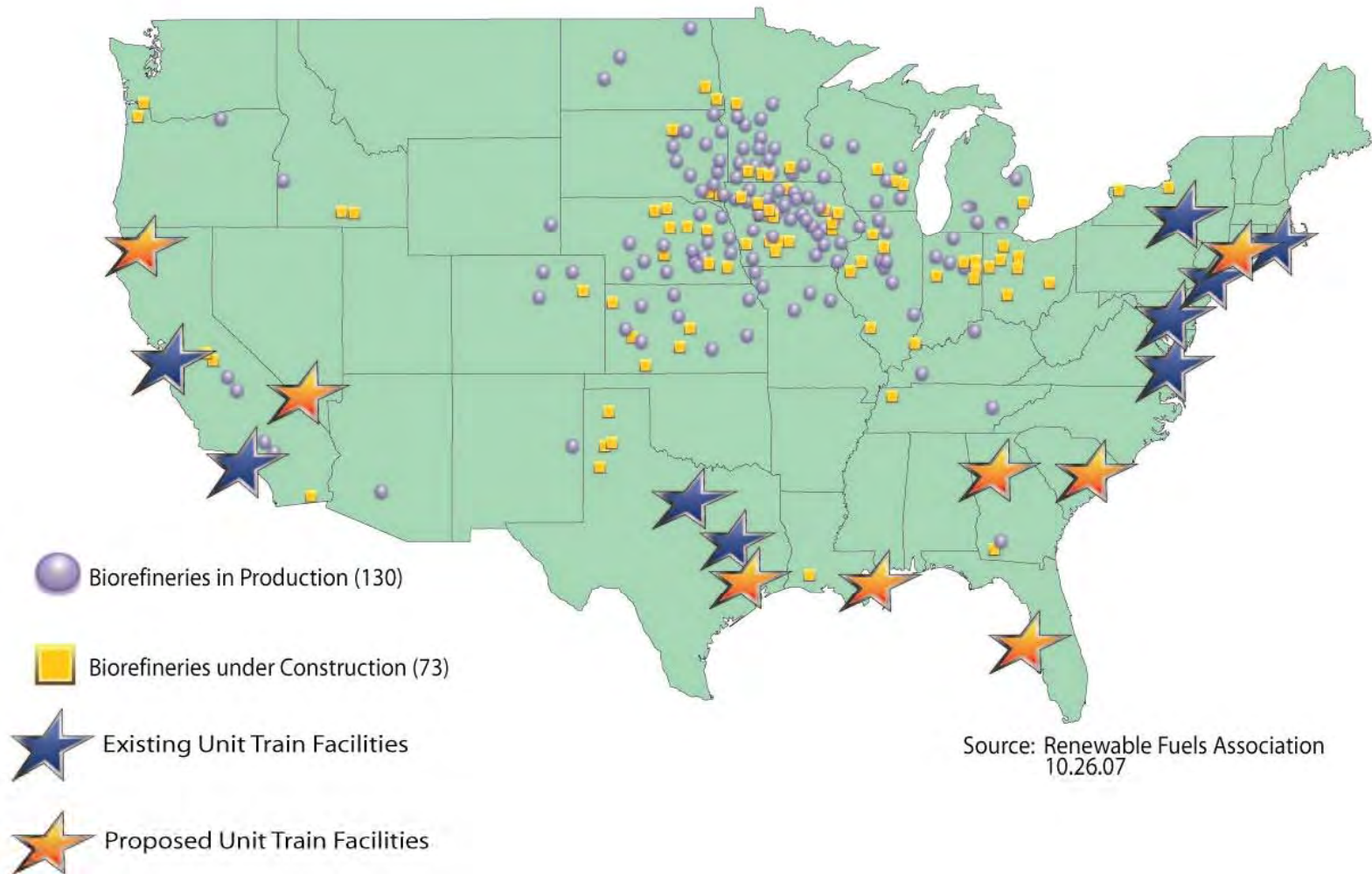
Fort Dodge

Columbus

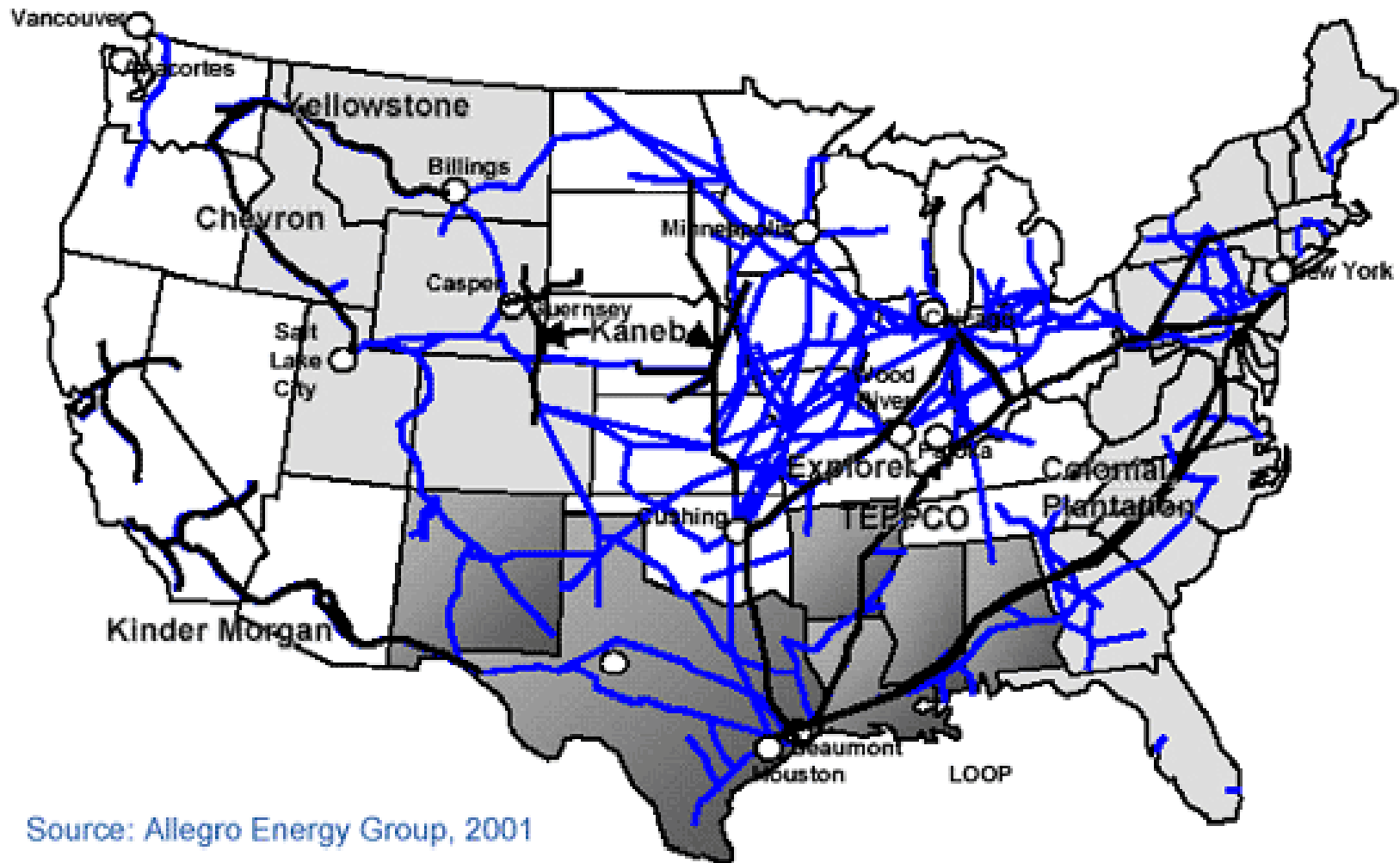
Manly Terminal Model



Unit Train Landing Locations



Major Refined Products Pipelines



Source: Allegro Energy Group, 2001

Questions?



RENEWABLE FUELS ASSOCIATION

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