carbon_model.rb

variable units variable units FIXME TODO should we make volumes energy contents to avoid unit mismatches?

```ruby
module BrighterPlanet
  module FuelPurchase
    module CarbonModel
      def self.included(base)
        base.decide :emission, :with => :characteristics do
          committee :emission do
            quorum 'from volume and emission factor', :needs =>
[:volume, :emission_factor] do |characteristics|

              characteristics[:volume] *
characteristics[:emission_factor]
            end

            quorum 'default' do
              raise "The fuel purchase's default emission quorum
should never be called"
            end
          end

          committee :emission_factor do # FIXME TODO add date-based
lookup once we have timeseries of emission factors
            quorum 'from fuel type', :needs => :fuel_type do
|characteristics|
              characteristics[:fuel_type].emission_factor
            end

            quorum 'default' do
              FuelType.fallback.emission_factor
            end
          end

          committee :volume do
            quorum 'from cost and price', :needs => [:cost, :price]
do |characteristics|
```

dollars dollars / variable unit FIXME TODO should we make prices $ / kJ to avoid unit mismatches?

variable units

variable units

FIXME TODO fill in location- and date-based quorums quorum :from_fuel_type_and_state_and_date, :needs => [:fuel_type, :state, :date] do |characteristics, timeframe| end

quorum :from_fuel_type_and_petroleum_administration_for_defense_district_and_date, :needs => [:fuel_type, :petroleum_administration_for_defense_district, :date] do |characteristics, timeframe| end

quorum :from_fuel_type_and_state, :needs => [:fuel_type, :state] do |characteristics, timeframe| end

quorum :from_fuel_type_and_petroleum_administration_for_defense_district, :needs => [:fuel_type, :petroleum_administration_for_defense_district] do |characteristics, timeframe| end

quorum :from_fuel_type_and_date, :needs [:fuel_type, :date] do |characteristics, timeframe| end

```ruby
        characteristics[:cost] / characteristics[:price]
      end

      quorum 'from fuel type', :needs => :fuel_type do |characteristics|

        characteristics[:fuel_type].average_purchase_volume
      end

      quorum 'default' do # FIXME TODO get rid of this if we ever make a fallback fuel_type

        FuelType.fallback.average_purchase_volume
      end
    end

    committee :price do

      quorum 'from fuel type', :needs => :fuel_type do |characteristics|
```

dollars / variable unit

```
                  characteristics[:fuel_type].price
            end
          end

          committee :petroleum_administration_for_defense_district do
            quorum 'from state', :needs => :state do
|characteristics|

characteristics[:state].petroleum_administration_for_defense_district
            end
          end

          committee :state do
            quorum 'from zip code', :needs => :zip_code do
|characteristics|
              characteristics[:zip_code].state
            end
          end



      end
    end
  end
  end
end
```

FIXME TODO should this be only user-supplied, or should we specify a fallback? committee :fuel_type do |characteristics, timeframe| FuelType.fallback.fuel_type end